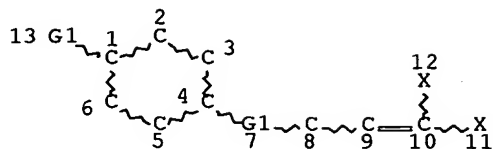


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L3 STR



VAR G1=O/N/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

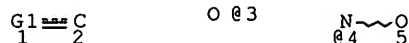
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STEREO ATTRIBUTES: NONE

L6 STR



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CONNECT IS E1 RC AT 3

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DEFAULT ECLEVEL IS LIMITED

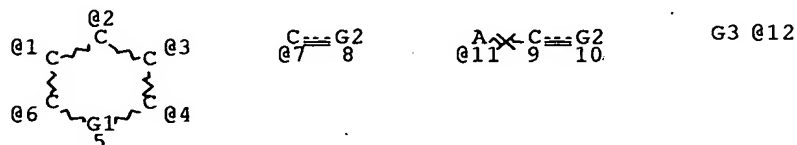
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

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 L20 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
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 L23 3773 SEA FILE=HCAPLUS ABB=ON PLU=ON HALL, R?/AU
 L24 27 SEA FILE=HCAPLUS ABB=ON PLU=ON RENOLD, P?/AU
 L25 56 SEA FILE=HCAPLUS ABB=ON PLU=ON TRAH, S?/AU
 L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24 OR
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 L31 STR



VAR G1=CH/N

VAR G2=O/N

VAR G3=7/11

VPA 12-1/2/3/4/6 U

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DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS 12

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L34 71 SEA FILE=HCAPLUS ABB=ON PLU=ON L33

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L36 54 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 AND (1840-2003)/PRY,AY
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L37 49 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 NOT L26

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L37 ANSWER 1 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:996170 HCAPLUS Full-text

DOCUMENT NUMBER: 141:424174

TITLE: Preparation of arylisoxazolines and related
compounds as pesticides.

INVENTOR(S): Jeschke, Peter; Mueller, Michael; Escher, Iris;
Malsam, Olga; Haack, Karl-Josef; Braun, Ralf;
Arnold, Christian

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 175 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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OTHER SOURCE(S): MARPAT 141:424174

ED Entered STN: 19 Nov 2004

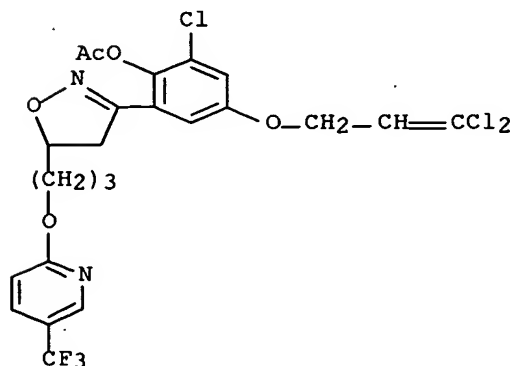
AB Title compds. [I; A1 = CH₂CH:CCl₂, CH₂CH:CF₂, CH₂CH:CClF, 5-trifluoromethylpyridin-2-yl, 5-chloropyridin-2-ylmethyl, 2,2-dichlorocyclopropan-1-ylmethyl, etc.; A2 = alkylene, alkenylene optionally interrupted by O, S, SO, SO₂, NH, NA; A = alkyl; R1 = H, NO₂, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, etc.; R2 = H, NO₂, OH, amino, cyano, cyanato, thiocyanato, CHO, halo, (substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, etc.; R3 = H, NO₂, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, dialkylamino, alkylcarbonylamino; R4 = H, NO₂, OH, amino, cyano, halo, (substituted) alkyl, alkoxy, alkylthio, alkylamino, dialkylamino, alkylcarbonylamino; R5 = H, (substituted) aryl, heteroaryl], were prepared Thus, 3-chloro-5-(3,3-dichloroallyloxy)-2-methoxybenzaldehyde oxime (preparation given) was stirred 2 h with N-chlorosuccinimide in DMF; 2-(pent-4-en-1-yloxy)-5-trifluoromethylpyridine (preparation given) and Et₃N were added and the mixture was kept 16 h to give 40% title compound (II). II at 100 ppm on cabbage leaves gave a 100% kill of *Spodoptera exigua* after 7 days.

IT 796117-81-2P

(preparation of arylisoxazolines and related compds. as pesticides)

RN 796117-81-2 HCAPLUS

CN Phenol, 2-chloro-4-[(3,3-dichloro-2-propenyl)oxy]-6-[4,5-dihydro-5-[3-[[5-(trifluoromethyl)-2-pyridinyl]oxy]propyl]-3-isoxazolyl]-, acetate (ester) (9CI) (CA INDEX NAME)



IC ICM C07D413-12
ICS C07D271-06; C07D261-08; C07D261-04

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5

IT 796116-38-6P 796116-40-0P 796116-42-2P 796116-44-4P
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796118-87-1P 796118-89-3P 796118-91-7P 796118-93-9P
(preparation of arylisoxazolines and related compds. as pesticides)

IT 75-45-6, Chlorodifluoromethane 94-82-6, 4-(2,4-Dichlorophenoxy)butyric acid 100-39-0, Benzyl bromide 109-90-0, Ethyl isocyanate 328-67-6 490-78-8 534-03-2, 2-Aminopropan-1,3-diol 534-07-6, 1,3-Dichloroacetone 542-69-8, 1-Iodobutane 821-09-0, 4-Penten-1-ol 821-41-0, 5-Hexen-1-ol 1119-51-3, 5-Bromo-1-pentene 2150-46-1, Methyl 2,5-dihydroxybenzoate 2969-81-5, Ethyl 4-bromobutyrate 5188-07-8, Sodium methanethiolate 5332-06-9, 4-Bromobutanenitrile 13621-50-6 33252-63-0, 5-Trifluoromethylpyridin-2-ol 36469-73-5, 3-Bromo-1,1-dichloropropene 52334-81-3, 2-Chloro-5-trifluoromethylpyridine 53370-50-6 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine 82396-42-7 180526-90-3 190142-96-2 345201-02-7 796117-79-8 796120-81-5 796120-83-7 796120-85-9 796120-87-1 796120-89-3 796120-91-7 796120-93-9 **796120-96-2**
(preparation of arylisoxazolines and related compds. as pesticides)

IT 147067-70-7P 528886-30-8P 528886-35-3P **528886-36-4P**
796118-96-2P 796118-98-4P **796119-00-1P** 796119-02-3P
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(preparation of arylisoxazolines and related compds. as pesticides)

L37 ANSWER 2 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:964833 HCAPLUS Full-text

DOCUMENT NUMBER: 141:410815

TITLE: Preparation of (dihalopropenyl) phenylalkyl
 substituted dihydrobenzofuran and
 dihydrobenzopyran derivatives as insecticides
 INVENTOR(S): Theodoridis, George; Barron, Edward J.; Suarez,
 Dominic P.; Zhang, Y. Larry; Ding, Ping; Roush,
 David M.; Donovan, Stephen F.; Zawacki, Frank J.;
 Yeager, Walter H.; Lyga, John W.; Cohen, Daniel H.

PATENT ASSIGNEE(S): Fmc Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 28 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004224994	A1	20041111	US 2004-832624	20040427
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US 6987194	B2	20060117		
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OTHER SOURCE(S): MARPAT 141:410815

ED Entered STN: 12 Nov 2004

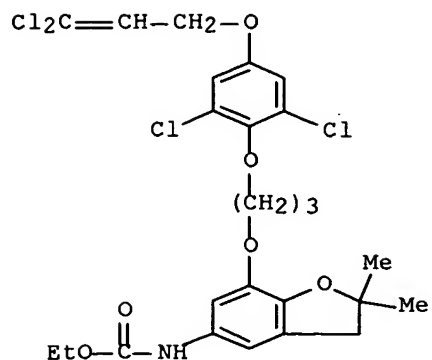
AB The title compds. (I) [R, R3 = H, halogen, HO, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, each (un)substituted NH₂, etc.; R1, R2 = H, halogen, alkyl; R4 = H; R5 = halogen; E = CH₂, O, S, (un)substituted NH; G = O, S, CH₂O*, (CH₂)_n (where the asterisk denotes attachment to E; n = 1, 2; provided that E and G are not simultaneously O or S); x = 0, 1; when x = 1, A = O, S(O)p and (un)substituted NH (where p = 0, 1, 2); B = (un)substituted *(CH₂)_q-(CH₂)_r-(CH₂)_s-Lt-(CH₂)_u-(CH₂)_v-(CH₂)_w- (where the asterisk denotes attachment at A; q, r, s, u, v, w = 0, 1, 2; t = 0, 1; when t = 1, L = CH:CH; O, S(O)p; OS(O)₂, S(O)₂O, (un)substituted NH, NHSO₂, or NHCONH; Si(CH₃)₂, CO, OC(O), NHCO; ON:CH, etc.); y = 0, 1; when y = 1, D = O, S(O)p, (un)substituted NH (wherein p = 0-2); R6-R9 = H, halogen, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, aryl, etc; R10, R11 = independently selected from hydrogen, halogen, hydroxy, alkyl, alkoxy, or R10 and R11 taken together are O forming CO, OCH₂CH₂O or SCH₂CH₂S forming a ketal or a thioketal group, or (un)substituted NOH forming an oxime; M = each (un)substituted *CH₂ or *CH₂CH₂ (where the asterisk indicates attachment to O)], and agriculturally acceptable salts thereof are prepared. These compds. provide unexpected insecticidal activity across a spectrum of insect pests combined with desirable phys. properties including improved photostability. In addition, compns. comprising an insecticidally effective amount of at least one compound of formula I and methods of controlling insects by applying said compns. to a locus where insects are present or are expected to be present are also disclosed. Thus, a stirred solution of 0.44 g (0.0011 mol) 4-[4-[(2,2-dimethyl-2,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-3,5-dichlorophenol, 0.3 g (0.0015 mol) 1,1,1,3-tetrachloropropane, and 0.3 g (0.0022 mol) K₂CO₃ in 25 mL DMF was heated at 80° for .apprx.18 h to give, after workup and silica gel chromatog., 0.39 g 5-(3,3-dichloroprop-2-enyloxy)-2-[4-[(2,2-dimethyl-2,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-1,3-dichlorobenzene (II). A wheat germ-based artificial diet containing 0.25 mmol II exhibited 100% mortality and 100% growth inhibition in tobacco budworm [*Heliothis virescens* (Fabricius)].

IT 791063-52-0P

(preparation of (dihalopropenyl) phenylalkyl-substituted dihydrobenzofuran and dihydrobenzopyran derivs. as insecticides)

RN 791063-52-0 HCAPLUS

CN Carbamic acid, [7-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-2,3-dihydro-2,2-dimethyl-5-benzofuranyl]-, ethyl ester (9CI) (CA INDEX NAME)



IC ICM A61K031-427

ICS A61K031-4245; A61K031-42; C07D417-02; C07D413-02

INCL 514364000; X51-437.9; X51-436.5; X54-813.1; X54-818.1; X54-824.1

CC 27-15 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

IT 791063-43-9P 791063-44-0P 791063-47-3P 791063-48-4P
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 791063-92-8P 791063-93-9P **791063-94-0P**
791063-95-1P 791063-96-2P

(preparation of (dihalopropenyl) phenylalkyl-substituted dihydrobenzofuran and dihydrobenzopyran derivs. as insecticides)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:650899 HCAPLUS Full-text

DOCUMENT NUMBER: 141:173978

TITLE: Preparation of aminoacetonitrile derivatives as agricultural and horticultural insecticides

INVENTOR(S): Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1445251	A1	20040811	EP 2004-10346	19990428

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EP 1445251 B1 20061227
 R: CH, DE, FR, GB, IT, LI
 EP 953565 A2 19991103 EP 1999-107461 19990428
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 EP 953565 A3 20021204
 EP 953565 B1 20040908
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO
 PRIORITY APPLN. INFO.: JP 1998-137806 A 19980501
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 EP 1999-107461 A3 19990428
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OTHER SOURCE(S): MARPAT 141:173978

ED Entered STN: 13 Aug 2004

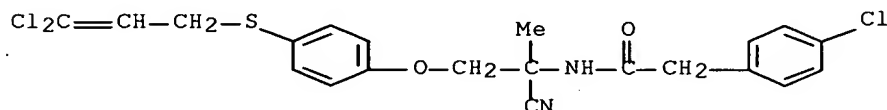
AB The title compds. Ar1(Q)dC(O)NR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, (substituted) phenyloxy, (substituted) phenylacetylene; (substituted) pyridyl and (substituted) naphthyl; Q = CR1R2 (wherein R1, R2 = H, halo, (halo)alkyl, etc.); R3 = H, (halo)alkyl, etc.; R4-R8 = H, halo, (halo)alkyl, etc.; W = O, S, SO2 or NR9 (wherein R9 = H, alkyl); a, b = 0-4; d = 0-1], useful as insecticides, were prepared E.g., a multi-step synthesis of II (starting from 4-chlorophenol and bromoacetaldehyde dimethylacetal), was given. The compds. I were tested against diamondback moth and against smaller tea tortrix (data were given for representative compds. I).

IT 247198-26-1P

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

RN 247198-26-1 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-cyano-2-[4-[(3,3-dichloro-2-propenyl)thio]phenoxy]-1-methylethyl]- (9CI) (CA INDEX NAME)



IC ICM C07C255-26

ICS A01N037-34; C07C317-14; C07D213-82

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5, 27

IT	247197-14-4P	247197-20-2P	247197-22-4P	247197-35-9P
	247197-37-1P	247197-39-3P	247197-41-7P	247197-43-9P
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736172-79-5P			

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT	736172-80-8P	736172-81-9P	736172-82-0P	736172-83-1P
	736172-86-4P	736172-88-6P	736172-89-7P	736172-90-0P
	736172-91-1P	736172-92-2P	736172-93-3P	736172-94-4P

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

L37 ANSWER 4 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:565184 HCAPLUS Full-text

DOCUMENT NUMBER: 141:131695

TITLE: Perfluoroallyloxy compound and liquid-crystal composition containing the same for electrooptical display element

INVENTOR(S): Shinano, Hirokatsu; Otsuka, Takahiro; Irisawa, Masatomi

PATENT ASSIGNEE(S): Asahi Denka Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058676	A1	20040715	WO 2003-JP15547	20031204
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AU 2003289187	A1	20040722	AU 2003-289187	20031204
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EP 1577286	A1	20050921	EP 2003-777258	20031204
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CN 1692091	A	20051102	CN 2003-80100305	20031204
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US 2005161637	A1	20050728	US 2004-505080	20040820
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US 7001647	B2	20060221		
PRIORITY APPLN. INFO.:			JP 2002-372303	A 20021224
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			JP 2003-8467	A 20030116
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			WO 2003-JP15547	W 20031204
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OTHER SOURCE(S): MARPAT 141:131695

ED Entered STN: 15 Jul 2004

AB. Disclosed is a novel perfluoroallyloxy compound represented by the following general formula I (R1 = substituent; A1,2 = 1,4-phenylene, etc.; B = single bond, alkylene; Z1 = single bond, COO, etc.; and n = integer 1-3) in a liquid-crystal composition. The perfluoroallyloxy compound is useful for an electrooptical display element.

IT 723246-41-1

(perfluoroallyloxy compound in liquid-crystal composition for electrooptical display element)

RN 723246-41-1 HCAPLUS

CN [1,1'-Bicyclohexyl]-4-carboxylic acid, 4'-ethyl-, 4-[(1,1,2,3,3-pentafluoro-2-propenyl)oxy]phenyl ester, (trans,trans)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Section cross-reference(s): 74

(perfluoroallyloxy compound in liquid-crystal composition for electrooptical display element)

PATENT INFORMATION:

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13

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IT 2002MI0814	A1	20031017	IT 2002-MI814	20020417
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AU 2003233966	A1	20031027	AU 2003-233966	20030411
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EP 1494991	A1	20050112	EP 2003-727293	20030411
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BR 2003009035	A	20050201	BR 2003-9035	20030411
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CN 1646472	A	20050727	CN 2003-808587	20030411
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US 2006235075	A1	20061019	US 2005-510383	20050330
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PRIORITY APPLN. INFO.:			IT 2002-MI814	A 20020417
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OTHER SOURCE(S): MARPAT 139:337783

ED Entered STN: 24 Oct 2003

AB Title compds. [I; X1, X2, X3 = R; X4, X5 and 2 of the remaining X1, X2, X3 = H, halo, ≥ 2 of said groups halo; R = (substituted) alkyl, haloalkyl, alkoxy, alkylthio, alkoxyalkoxy, NH₂, trialkylsilyl, aryloxy, heteroaryloxy, alkenyloxy, alkenylthio, heteroaryl, alkynyloxy, alkynylthio, aryl, heteroaryl, cycloalkylthio, cycloalkylalkoxy, cycloalkylalkylthio, heterocyclyloxy, etc.; Y = OMe, NHMe, NH₂; Z = CH, N; n = 0-4], were prepared Thus, 4-cyclopropylmethoxy-3,5-dichlorophenol in DMF is added dropwise at 0° to a suspension of NaH in DMF; the mixture is kept under stirring at room temperature for 30 min and a solution of Me (E)-2-(2-bromomethylphenyl)-3-methoxyacrylate in DMF is then added. The mixture is kept under stirring for 4 h to give Me (E)-2-[2-(4-cyclopropylmethoxy-3,5-dichlorophenoxy)methyl]phenyl]-3-methoxyacrylate. I at 200 ppm showed full activity against Tetranychus urticae.

IT 616899-05-9P

(preparation of strobilurine analogs as acaricides, insecticides, and fungicides)

RN 616899-05-9 HCAPLUS

CN Benzeneacetic acid, 2-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]methyl]- α -(methoxymethylene)-, methyl ester, (α E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 6 OF 49 HCAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2003:396826 HCAPLUS Full-text
DOCUMENT NUMBER: 138:401492
TITLE: Preparation of 2-chloro-4-[(3,3-dichloro-2-propenyl)oxy]phenol ethers as pest control agents
INVENTOR(S): Tiebes, Joerg; Braun, Ralf; Dickhaut, Joachim; Jakobi, Harald; Lindell, Stephen; Salgado, Vincent L.; Wojtech, Eva; Jans, Daniela; Waibel, Jutta Maria; Hempel, Waltraud; Wilhelm, Ronald
PATENT ASSIGNEE(S): Bayer CropScience SA, Fr.
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003042147	A1	20030522	WO 2002-EP11980	20021026

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DE 10155385      A1      20030528      DE 2001-10155385      20011110
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EP 1446375      A1      20040818      EP 2002-787515      20021026

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JP 2005509017 T 20050407 JP 2003-543985 20021026
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 US 2004029886 A1 20040212 US 2002-289398 20021107
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 US 6949551 B2 20050927
 PRIORITY APPLN. INFO.: DE 2001-10155385 A 20011110
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 WO 2002-EP11980 W 20021026
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OTHER SOURCE(S): MARPAT 138:401492

ED Entered STN: 23 May 2003

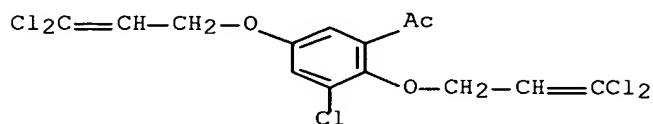
AB Title compds. I [R1, R2 = halo; Y = O, S, NH; X = O, S(O)r, NR5; r = 0-2; R5 = H, alkyl; Z = C-C bond (sic), O, S(O)r, etc.; R3 = H, halo, NO2, etc.; R4 = (un)substituted aryl, N-heteroaryl; A = OR6, SR6, NR7R8, etc.; B = (un)substituted alkylene, cycloalkylene; R6, R7, R8 = H, alkyl, alkenyl, etc.] were prepared For example, Mitsunobu mediated coupling of phenol II, e.g., prepared from 3-acetyl-1-chloro-2-hydroxy-5-methoxybenzene in 3-steps, and 3-[[5-(trifluoromethyl)-2-pyridinyl]oxy]-1-propanol afforded dichloropropene III in 74% yield. In *Heliothis virescens* studies, 26-examples of compds. I, e.g., dichloropropene III, demonstrated 50% or greater parasite morality (eggs and possibly the larva) at 500 ppm.

IT **528886-32-0P**, 3-Acetyl-2,5-bis-(3,3-dichloroprop-2-enyloxy)-1-chlorobenzene

(intermediate; preparation of dihalogenpropenyloxyphenol ethers as pest control agents)

RN 528886-32-0 HCAPLUS

CN Ethanone, 1-[3-chloro-2,5-bis[(3,3-dichloro-2-propenyl)oxy]phenyl]-(9CI) (CA INDEX NAME)



IC ICM C07C043-225

ICS C07C205-34; C07C255-54; C07D213-643; C07D231-20; C07D239-34;
A01N039-00; A01N037-34; A01N043-40; A01N043-50; A01N043-56

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 528886-30-8P, 3-Acetyl-1-chloro-2,5-dihydroxybenzene

528886-32-0P, 3-Acetyl-2,5-bis-(3,3-dichloroprop-2-enyloxy)-1-chlorobenzene **528886-34-2P**, 3-Acetyl-1-chloro-5-(3,3-

dichloroprop-2-enyloxy)-2-hydroxybenzene 528886-35-3P,

3-Chloro-2,5-dihydroxybenzoic acid methyl ester **528886-36-4P**

, 3-Chloro-5-(3,3-dichloroprop-2-enyloxy)-2-hydroxybenzoic acid methyl ester 528886-37-5P, 5-Benzoyloxy-3-chloro-2-hydroxy-1-iodobenzene

528886-38-6P 528886-39-7P 528886-40-0P **528886-41-1P**

(intermediate; preparation of dihalogenpropenyloxyphenol ethers as pest control agents)

IT **528885-94-1P 528886-00-2P**

(target compound; preparation of dihalogenpropenyloxyphenol ethers as pest control agents)

IT **528885-85-0P 528885-86-1P 528885-87-2P**

528885-88-3P 528885-89-4P 528885-90-7P
 528885-91-8P 528885-92-9P 528885-93-0P
 528885-96-3P 528885-98-5P 528885-99-6P
 528886-01-3P 528886-02-4P 528886-03-5P
 528886-04-6P 528886-05-7P 528886-06-8P
 528886-07-9P 528886-08-0P 528886-09-1P
 528886-10-4P 528886-11-5P 528886-12-6P 528886-13-7P
 528886-14-8P 528886-15-9P 528886-16-0P 528886-17-1P
 528886-18-2P 528886-19-3P 528886-20-6P 528886-21-7P
 528886-22-8P 528886-23-9P 528886-24-0P
 528886-25-1P 528886-26-2P 528886-27-3P 528886-42-2P

(target compound; preparation of dihalogenpropenyloxyphenol ethers as pest control agents)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 7 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:874390 HCAPLUS Full-text

DOCUMENT NUMBER: 136:19936

TITLE: Preparation of dihalopropenyloxyphenylalkanone oximes as insecticides and acaricides

INVENTOR(S): Ikegami, Hiroshi; Suzuki, Masaya

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 111 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001335550	A	20011204	JP 2000-156888	20000526
			<--	
PRIORITY APPLN. INFO.:			JP 2000-156888	20000526
			<--	

OTHER SOURCE(S): MARPAT 136:19936

ED Entered STN: 04 Dec 2001

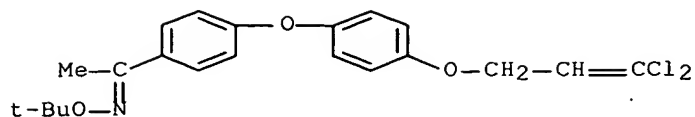
AB Title compds. I (R1-R8 = H, halo, C1-4 alkyl, C1-4 alkoxy, C1-3 haloalkyl, etc.; R9 = H, C1-10 alkyl, C2-6 haloalkyl, C3-10 alkenyl, C3-6 haloalkenyl, etc.; R10 = C1-6 alkyl, C1-3 haloalkyl, (un)substituted Ph, etc.; Z = single bond, O, S(O)1, NR11; 1 = 0-2; A = C1-6 alkylene, C2-6 alkylidene; X = Cl, Br; Z = O, S(O)1, NR11, CR13R14; R12-R14 = H, C1-4 alkyl; 1, m, n = 0-2) are prepared [4-[4-(3,3-Dichloro-2-propenyloxy)phenoxy]phenoxy]acetone was reacted with O-tert-butyloxylamine hydrochloride in pyridine at room temperature for 2 h to give 84.3% [4-[4-(3,3-dichloro-2-propenyloxy)phenoxy]phenoxy]ac etone O-tert-butyloxime showing good ≥80% insecticidal activity against Adoxophyes orana fasciata.

IT 378187-42-9P

(preparation of dihalopropenyloxyphenylalkanone oximes as insecticides and acaricides)

RN 378187-42-9 HCAPLUS

CN Ethanone, 1-[4-[4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]phenyl]-, O-(1,1-dimethylethyl)oxime (9CI) (CA INDEX NAME)



IC ICM C07C251-32
ICS A01N035-10; A01N041-10; C07C317-22; C07C323-20

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 378187-35-0P 378187-37-2P 378187-39-4P **378187-42-9P**
378187-43-0P 378187-49-6P 378187-52-1P 378187-54-3P
378187-59-8P 378187-63-4P 378187-64-5P 378187-65-6P
378187-66-7P 378187-67-8P 378187-68-9P 378187-72-5P
378187-74-7P 378187-75-8P 378187-76-9P 378187-81-6P
378187-82-7P 378187-83-8P 378187-84-9P 378187-85-0P
378187-87-2P 378187-89-4P 378187-90-7P **378187-92-9P**
378187-93-0P 378187-94-1P 378187-96-3P 378187-98-5P
378188-00-2P 378188-02-4P 378188-04-6P 378188-06-8P
378188-07-9P 378188-08-0P 378188-09-1P 378188-10-4P
378188-14-8P 378188-16-0P 378188-18-2P **378188-20-6P**
378188-21-7P 378188-22-8P 378188-23-9P 378188-24-0P
378188-25-1P 378188-26-2P 378188-27-3P
378188-28-4P **378188-29-5P** 378188-30-8P
378188-31-9P 378188-32-0P 378188-33-1P
(preparation of dihalopropenyloxyphenylalkane oximes as insecticides and acaricides)

IT 5535-70-6P 67963-68-2P, 1-Bromo-4-(tert-butyl-
dimethylsilyloxy)benzene 155828-47-0P 159191-56-7P,
4-(tert-Butyl-
dimethylsilyloxy)phenylboronic acid 182568-54-3P
182568-55-4P 345200-79-5P 378187-34-9P 378187-38-3P
378187-40-7P 378187-41-8P 378187-44-1P 378187-45-2P
378187-46-3P 378187-47-4P 378187-48-5P **378187-50-9P**
378187-51-0P 378187-55-4P 378187-56-5P 378187-57-6P
378187-58-7P 378187-60-1P 378187-61-2P 378187-62-3P
378187-70-3P 378187-71-4P 378187-73-6P 378187-77-0P
378187-78-1P **378187-79-2P** 378187-80-5P 378187-86-1P
378187-88-3P **378187-91-8P** 378187-95-2P 378187-97-4P
378187-99-6P 378188-01-3P 378188-03-5P 378188-05-7P
378188-15-9P 378188-17-1P **378188-19-3P** 378188-34-2P
378188-35-3P 378188-36-4P 378188-37-5P 378188-38-6P
378188-39-7P 378188-40-0P 378188-41-1P
(preparation of dihalopropenyloxyphenylalkane oximes as insecticides and acaricides)

L37 ANSWER 8 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:54210 HCAPLUS Full-text
DOCUMENT NUMBER: 132:89502
TITLE: Preparation of 3,3-dichloro-2-fluoroacrylic acid
derivatives as agrochemical microbicides and
insecticides
INVENTOR(S): Fischer, Reiner; Hagemann, Hermann; Wachendorff,
Ulrike; Erdelen, Christoph; Dutzmann, Stefan;
Haenssler, Gerd; Mauler-Machnik, Astrid
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 38 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19832445	A1	20000120	DE 1998-19832445	19980718
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WO 2000003580	A2	20000127	WO 1999-EP4746	19990707
			<--	
WO 2000003580	A3	20000420		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9949083	A1	20000207	AU 1999-49083	19990707
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PRIORITY APPLN. INFO.:

DE 1998-19832445	A	19980718
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WO 1999-EP4746	W	19990707
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OTHER SOURCE(S): MARPAT 132:89502

ED Entered STN: 23 Jan 2000

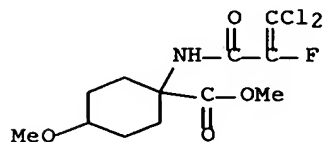
AB The 3,3-dichloro-2-fluoroacrylic acid derivs. Cl₂C:CF(COA) (A = OH, OMe, OCH₂Ph, NHCMCO₂Me, NHCMPh, CH₂CH₂OMe, CHMeCO₂H, etc.) are prepd as agrochem. microbicides and insecticides and enhancers for azole fungicides.

IT **254979-97-0P**

(preparation as agrochem. microbicides and insecticides)

RN 254979-97-0 HCAPLUS

CN Cyclohexanecarboxylic acid, 1-[(3,3-dichloro-2-fluoro-1-oxo-2-propenyl)amino]-4-methoxy-, methyl ester (9CI) (CA INDEX NAME)



IC ICM A01N037-18

ICS A01N043-50; A01N043-653

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 25

IT 392-40-5P 433-62-5P 433-63-6P 254979-73-2P 254979-74-3P
 254979-75-4P 254979-76-5P 254979-77-6P 254979-78-7P
 254979-79-8P 254979-80-1P 254979-81-2P 254979-82-3P
 254979-83-4P 254979-84-5P 254979-85-6P 254979-86-7P
 254979-88-9P 254979-89-0P 254979-90-3P 254979-91-4P
 254979-92-5P 254979-93-6P 254979-94-7P 254979-95-8P
 254979-96-9P **254979-97-0P** 254979-98-1P 254979-99-2P
 254980-01-3P **254980-03-5P** 254980-05-7P 254980-07-9P

(preparation as agrochem. microbicides and insecticides)

L37 ANSWER 9 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:18277 HCAPLUS Full-text

DOCUMENT NUMBER: 132:46272

TITLE: Synergistic insecticidal composition containing
3,5-dichloro-1-(3,3-dichloro-2-propenyloxy)-4-[3-
(5-trifluoromethylpyridin-2-yloxy)propoxy]benzene
and a pyrethroid.

INVENTOR(S): Saito, Shigeru

PATENT ASSIGNEE(S): Sumitomo Chemical Company Limited, Japan

SOURCE: Fr. Demande, 18 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2779032	A1	19991203	FR 1999-6937	19990602
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FR 2779032	B1	20010209		
JP 2000053508	A	20000222	JP 1999-109644	19990416
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IL 129757	A	20030731	IL 1999-129757	19990504
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US 6159991	A	20001212	US 1999-306453	19990506
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AU 9926987	A	19991209	AU 1999-26987	19990507
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AU 745189	B2	20020314		
ZA 9903197	A	19991110	ZA 1999-3197	19990510
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GR 1003324	B2	20000224	GR 1999-100153	19990510
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EG 22705	A	20030730	EG 1999-593	19990523
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MX 9904788	A	20000331	MX 1999-4788	19990524
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KR 2000005737	A	20000125	KR 1999-19499	19990528
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ES 2157797	A1	20010816	ES 1999-1171	19990528
			<--	
ES 2157797	B1	20020316		
BR 9901761	A	20000502	BR 1999-1761	19990601
			<--	
IT 1307041	B1	20011023	IT 1999-TO463	19990601
			<--	
CN 1238125	A	19991215	CN 1999-106969	19990602
			<--	
PRIORITY APPLN. INFO.:			JP 1998-152736	A 19980602
			<--	

ED Entered STN: 10 Jan 2000

AB Synergistic insecticidal composition contain 3,5-dichloro-1-(3,3-dichloro-2-propenyloxy)-4-[3-(5-trifluoromethylpyridin-2-yloxy)propoxy]benzene and a pyrethrinoid, such as esfenvalerate, fenvalerate, flucythrinate, etc.

IT 252936-48-4

(synergistic insecticidal composition)

RN 252936-48-4 HCAPLUS

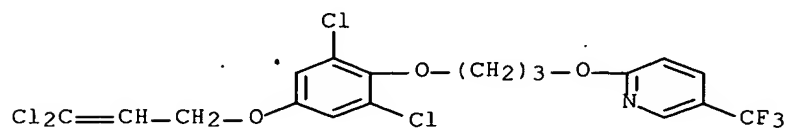
CN Benzeneacetic acid, 4-chloro- α -(1-methylethyl)-,

cyano(3-phenoxyphenyl)methyl ester, mixt. with 2-[3-[2,6-dichloro-4-
[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]-5-
(trifluoromethyl)pyridine (9CI) (CA INDEX NAME)

CM 1

CRN 179101-81-6

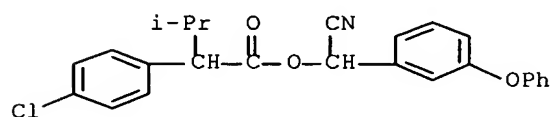
CMF C18 H14 Cl4 F3 N O3



CM 2

CRN 51630-58-1

CMF C25 H22 Cl N O3



IC ICM A01N053-00

ICI A01N053-00, A01N043-40

CC 5-4 (Agrochemical Bioregulators)

IT **252936-48-4 252936-49-5** 252936-50-8 252936-51-9
252936-52-0 252936-53-1 252936-54-2 252936-55-3 252936-56-4
252936-57-5 **252936-58-6**

(synergistic insecticidal composition)

L37 ANSWER 10 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:708444 HCAPLUS Full-text

DOCUMENT NUMBER: 131:310455

TITLE: Preparation of aroylaminoacetonitriles as
agricultural and horticultural insecticides

INVENTOR(S): Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 63 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 953565	A2	19991103	EP 1999-107461	19990428

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EP 953565	A3	20021204		
EP 953565	B1	20040908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6239077	B1	20010529	US 1999-295319	19990421
			<--	
TW 585849	B	20040501	TW 1999-88106732	19990427
			<--	
EP 1445251	A1	20040811	EP 2004-10346	19990428
			<--	
EP 1445251	B1	20061227		
R: CH, DE, FR, GB, IT, LI				
CN 1234177	A	19991110	CN 1999-105289	19990430
			<--	
CN 1132516	B	20031231		
AU 9926027	A	19991111	AU 1999-26027	19990430
			<--	
AU 752112	B2	20020905		
JP 2000026392	A	20000125	JP 1999-124560	19990430
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PRIORITY APPLN. INFO.:			JP 1998-137806	A 19980501
			<--	
			EP 1999-107461	A3 19990428
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OTHER SOURCE(S): MARPAT 131:310455

ED Entered STN: 05 Nov 1999

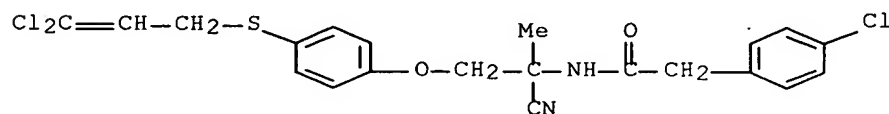
AB Ar1QdCONR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, PhO, pyridyl, pyridyloxy, naphthyl; Q = CR1R2; R1, R2 = H, halo, (halo)alkyl, (halo)alkoxy, (substituted) cycloalkyl; R1R2 = (substituted) C2-6 alkylene, CH:CH, C.tplbond.C; d = 0, 1; R3 = H, (halo)alkyl; R4-R8 = H, halo, (halo)alkyl; W = O, S, SO2, NR9; R9 = H, alkyl; a, b = 0-4], were prepared Thus, 4-chlorophenol, bromoacetaldehyde di-Me acetal, K2CO3, and cat. NaI were refluxed 3 h in DMF to give 4-chlorophenoxyacetaldehyde di-Me acetal. This was refluxed with aqueous HCl in acetone to give crude 4-chlorophenoxyacetaldehyde, which was stirred with NaCN and NH4Cl in aqueous NH3 to give a residue. This was stirred with 4-chlorophenylacetyl chloride and Et3N in THF to give I (Ar1, Ar2 = 4-ClC6H4; R1-R8 = H; W = O; a, d = 1; b = 0). Numerous I at 500 ppm gave 100% kill of Plutella xylostella on cabbage seedlings.

IT 247198-26-1P

(preparation of aroylaminoacetone nitriles as agricultural and horticultural insecticides)

RN 247198-26-1 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-cyano-2-[4-[(3,3-dichloro-2-propenyl)thio]phenoxy]-1-methylethyl]- (9CI) (CA INDEX NAME)



IC ICM C07C255-26

ICS A01N037-34; C07C317-14

CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 247197-13-3P 247197-14-4P 247197-15-5P 247197-16-6P

247197-17-7P	247197-18-8P	247197-20-2P	247197-22-4P
247197-24-6P	247197-25-7P	247197-27-9P	247197-29-1P
247197-31-5P	247197-33-7P	247197-35-9P	247197-37-1P
247197-39-3P	247197-41-7P	247197-43-9P	247197-45-1P
247197-47-3P	247197-49-5P	247197-50-8P	247197-52-0P
247197-54-2P	247197-56-4P	247197-57-5P	247197-58-6P
247197-59-7P	247197-60-0P	247197-61-1P	247197-62-2P
247197-63-3P	247197-64-4P	247197-65-5P	247197-66-6P
247197-67-7P	247197-68-8P	247197-69-9P	247197-70-2P
247197-71-3P	247197-72-4P	247197-73-5P	247197-74-6P
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247197-83-7P	247197-84-8P	247197-85-9P	247197-86-0P
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247197-91-7P	247197-92-8P	247197-93-9P	247197-94-0P
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247197-99-5P	247198-00-1P	247198-01-2P	247198-02-3P
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247198-30-7P	247198-31-8P	247198-32-9P	247198-33-0P
247198-34-1P	247198-35-2P	247198-36-3P	247198-37-4P
247198-38-5P	247198-39-6P	247198-40-9P	247198-41-0P
247198-42-1P	247198-43-2P	247198-44-3P	247198-45-4P
247198-46-5P	247198-47-6P	247198-48-7P	247198-49-8P
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247198-66-9P	247198-67-0P	247198-68-1P	247198-69-2P
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247199-66-2P	247199-67-3P	247199-68-4P	247199-69-5P
247199-70-8P			

(preparation of aroylaminoacetonitriles as agricultural and horticultural insecticides)

L37 ANSWER 11 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:682354 HCAPLUS Full-text
 DOCUMENT NUMBER: 129:316033
 TITLE: Preparation of oximes as insecticidal and acaricidal agents
 INVENTOR(S): Ikegami, Hiroshi; Izumi, Keiichi; Suzuki, Masaya; Sakamoto, Noriyasu; Saito, Shigeru
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 735 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9845254	A2	19981015	WO 1998-JP1342	19980326
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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OTHER SOURCE(S): MARPAT 129:316033

ED Entered STN: 28 Oct. 1998

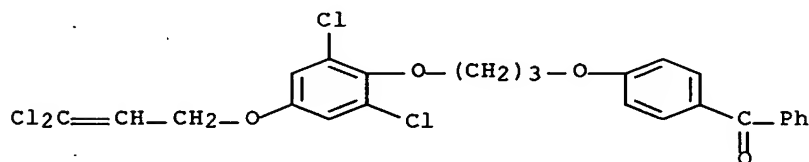
AB The title compds. [I; R1-R3 = halo, C1-3 alkyl, C1-3 haloalkyl, etc.; R4 = 3,3-dihalo-2-propenyl; a = 0-2; Y = O, S, NH; Z = O, S, NR5 (wherein R5 = H, Ac, C1-3 alkyl); X = R6ON:C(R7)Al-, R8C(R9):NOA2- (R6 = H, C1-8 alkyl, C2-6 haloalkyl, etc.; R7 = H, C1-6 alkyl, C1-3 haloalkyl, etc.; R8, R9 = H, C1-11 alkyl, C1-6 haloalkyl, etc.; A1 = (CR19:CR20)h(CR21R22)i, (CR19:CR20)h(CR21R22)jQ1(CR23R24)k, etc.; R19-R24 = H, C1-3 alkyl, CF3; h = 0-1; i = 1-6; j = 1-3; k = 2-8; Q1 = O, S, S(O), S(O)2, etc.; A2 = (CR19R20)jC.tplbond.C(CR23R24)m, (CR19R20)hE(CR23R24)p, etc.; E = C5-6 cycloalkylene)]; useful as insecticidal/acaricidal agents, were prepared Thus, reaction of 4-[2,6-dichloro-4-(3,3-dichloro-2-propenyloxy)phenoxy]butyloxyacetaldehyde with O-(3,3-dichloro-2-propenyl)hydroxylamine hydrochloride in pyridine afforded 74% II which showed a mortality of 80% or higher against Spodoptera litura and Plutella xylostella.

IT 178044-55-8P

(preparation of oximes as insecticidal and acaricidal agents)

RN 178044-55-8 HCAPLUS

CN Methanone, [4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]phenyl- (9CI) (CA INDEX NAME)



IC ICM C07C251-00

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

IT 178044-55-8P 214701-28-7P 214704-50-4P 214704-51-5P
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 214704-59-3P 214704-60-6P 214704-61-7P
 214704-63-9P 214704-67-3P 214705-84-7P

(preparation of oximes as insecticidal and acaricidal agents)

IT 179101-95-2P 214700-17-1P 214700-19-3P 214700-22-8P
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 (preparation of oximes as insecticidal and acaricidal agents)
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 (preparation of oximes as insecticidal and acaricidal agents)
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(preparation of oximes as insecticidal and acaricidal agents)

L37 ANSWER 12 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:533604 HCAPLUS Full-text

DOCUMENT NUMBER: 127:205343

TITLE: Dihalopropene compounds, their use as
insecticides/acaricides, and intermediates for
their production

INVENTOR(S): Ikegami, Hiroshi; Izumi, Keiichi; Suzuki, Masaya;
Sakamoto, Noriyasu; Takano, Hirotaka

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 228 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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AU 702043	B2	19990211		
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PRIORITY APPLN. INFO.:			JP 1996-14120	A 19960130
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OTHER SOURCE(S): MARPAT 127:205343

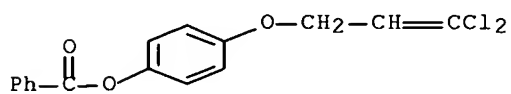
ED Entered STN: 21 Aug 1997

AB Dihalopropene compds. I [R1 = substituted alkyl; R2, R3, R4 = halo, alkyl, haloalkyl, alkoxy, haloalkoxy, NO₂, cyano; A = O, S(O)m, NR14; R14 = H, alkyl; t = 0-2; B = substituted alkylene, alkenylene, alkynylene; n = 0-2; X's = halo; Y = O, S, NH; Z = O, S, NR25; R25 = H, Ac, alkyl] are disclosed. I are useful as active ingredients of insecticidal/acaricidal agents. For instance, Mitsunobu etherification of 4-(3,3-dichloro-2-propenyloxy)butanol with 2,6-dichloro-4-(3,3-dichloro-2-propenyloxy)phenol using DIAD and PPh₃ in THF gave 73% title compound II. Applied to cabbages as a 200-ppm emulsified solution, II gave ≥ 80% mortality of larval *Plutella xylostella*. Several compds. I were also active against the acarid *Tetranychus urticae*.

IT **178043-36-2P**
(intermediate; preparation of phenoxydihalopropene compds. as insecticides and acaricides)

RN 178043-36-2 HCAPLUS

CN Phenol, 4-[(3,3-dichloro-2-propenyl)oxy]-, benzoate (9CI) (CA INDEX NAME)



IC ICM C07C043-20
ICS C07C323-20; C07C217-84; C07C321-28; C07C323-36; C07C211-51;
A01N031-16; A01N033-06; A01N033-08

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 1687-64-5P 5501-49-5P 7564-39-8P 77237-42-4P 77243-52-8P
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(intermediate; preparation of phenoxydihalopropene compds. as insecticides and acaricides)

L37 ANSWER 13 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:513623 HCAPLUS Full-text

DOCUMENT NUMBER: 127:190529

TITLE: Dihalopropene compounds, their use as insecticides/acaricides, and intermediates for their production

INVENTOR(S): Ikegami, Hiroshi; Hirose, Taro; Suzuki, Masaya; Izumi, Keiichi; Sakamoto, Noriyasu; Takano, Hirotaka; Takada, Yoji

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Ltd., Japan

SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9727173	A2	19970731	WO 1997-JP76	19970117
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WO 9727173	A3	19980402		
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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JP 09263572	A	19971007	JP 1997-8040	19970120
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IN 1997MA00121	A	20050304	IN 1997-MA121	19970122
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ZA 9700559	A	19970730	ZA 1997-559	19970123
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PRIORITY APPLN. INFO.:			JP 1996-10424	A 19960124
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OTHER SOURCE(S): MARPAT 127:190529

ED Entered STN: 13 Aug 1997

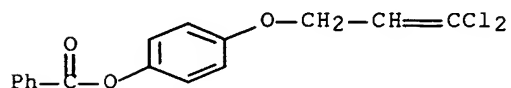
AB Dihalopropene compds. I [wherein R, R2, R3 = halo, haloalkyl, alkyl; R4 = H, alkyl; R5, R6 = H, alkyl, CF3; R7 = halo, alkyl, CF3; R8, R9 = H, alk(en/yn)yl, haloalk(en/yn)yl, etc.; Q1 = bond or various C and/or heteroat. linkage groups; Q2 = bond, O, NR14; R14 = H, alkyl; X = Cl, Br; Y = O, NH, S; Z = O, S, NR15; R15 = H, alkyl; n = 0-4; p = 0-6; and q = 0-2], which have excellent insecticidal/acaricidal activity, are disclosed. For instance, etherification of 3,5-dichloro-4-(4-bromobutoxy)-1-(3,3-dichloro-2-propenyloxy)benzene (preparation given) with 4-(1-piperidinylcarbonyl)phenol using K2CO3 in DMF at room temperature gave title compound II. At 500 ppm in the diet of larval *Spodoptera litura* or *Plutella xylostella*, II gave 80% mortality in 4-6 days. I also gave $\geq 60\%$ mortality of *Tetranychus urticae* upon spray application at 500 ppm.

IT 178043-36-2P

(intermediate; preparation of dihalopropene compds. as insecticides and acaricides)

RN 178043-36-2 HCAPLUS

CN Phenol, 4-[(3,3-dichloro-2-propenyl)oxy]-, benzoate (9CI) (CA INDEX NAME)



IC ICM C07C233-64

ICS C07C235-42; C07C237-28; C07C271-40; C07C275-28; C07C333-02

CC 25-21 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5, 27, 28IT 1486-50-6P, 4-(Benzyloxy)benzoyl chloride 1486-51-7P,
4-(Benzyloxy)benzoic acid 1687-64-5P, 2-Ethyl-6-methylphenol

7564-39-8P, 4-Bromo-2-ethyl-6-methylphenol 32122-11-5P, Methyl
 4-(benzyloxy)benzoate 155916-12-4P, 2,6-Dichloro-4-(benzyloxy)phenol
 178043-12-4P **178043-36-2P** 178043-37-3P 178043-45-3P
 178043-46-4P **178046-27-0P** 179101-67-8P 184344-91-0P
 184344-92-1P, 3-Ethyl-4-(benzyloxy)-5-methylphenol 184344-93-2P
 184344-94-3P **194225-04-2P 194225-05-3P**
194225-06-4P 194225-07-5P 194225-08-6P 194225-09-7P
 194225-10-0P 194225-11-1P **194225-14-4P**

(intermediate; preparation of dihalopropene compds. as insecticides and acaricides)

IT **194224-91-4P 194224-92-5P 194224-93-6P**
194224-94-7P 194224-95-8P 194224-96-9P
194224-97-0P 194224-98-1P 194224-99-2P
194225-00-8P 194225-01-9P 194225-02-0P
194225-03-1P

(preparation of dihalopropene compds. as insecticides and acaricides)

L37 ANSWER 14 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:509102 HCAPLUS Full-text

DOCUMENT NUMBER: 127:220458

TITLE: Preparation of (3,3-dihalo-2-propenyloxy)benzene
 derivatives and their intermediates and
 insecticides and acaricides containing the
 derivatives

INVENTOR(S): Izumi, Keiichi; Ikegami, Hiroshi; Suzuki, Masaya;
 Sakamoto, Noriyasu; Takano, Masataka

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 135 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09194418	A	19970729	JP 1996-25789	19960118
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PRIORITY APPLN. INFO.:			JP 1996-25789	19960118
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OTHER SOURCE(S): MARPAT 127:220458

ED Entered STN: 11 Aug 1997

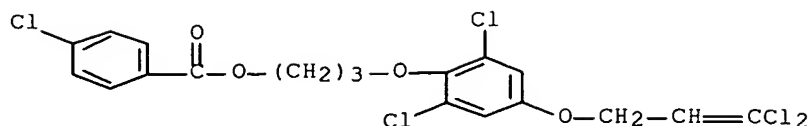
AB The title derivs. I [R = ZR1; R1 = aliphatic group, alicyclic group which may
 be substituted with halo or more complex substituents containing aromatic or
 heterocyclyl group, etc.; X = O, S; X = Cl, Br; R2-4 = H, halo, Cl-3
 (halo)alkyl; ≥1 of R2-4 = H] (II) and their intermediates I (R = OH) are
 prepared Insecticides and acaricides containing II are also claimed. 4-(4-
 Bromophenethyloxy)-2,6-dichloro-1-(3,3-dichloro-2-propenyloxy)benzene
 (preparation given) showed ≥80% insecticidal activity against Spodoptera
 litura. Formulations of II including fumigants, mosquito coils, etc. were
 also given.

IT **178044-94-5P**

(preparation of (dihalopropenyloxy)benzenes as insecticides and
 acaricides and their intermediates)

RN 178044-94-5 HCAPLUS

CN Benzoic acid, 4-chloro-, 3-[2,6-dichloro-4-[(3,3-dichloro-2-
 propenyl)oxy]phenoxy]propyl ester (9CI) (CA INDEX NAME)



IC ICM C07C043-225
 ICS A01N031-16; A01N037-10; A01N037-14; A01N037-20; A01N037-22;
 A01N037-24; A01N043-30; A01N043-32; A01N043-40; C07C043-23;
 C07C069-76; C07C233-15; C07C233-25; C07C235-46; C07C237-30;
 C07C237-42; C07C317-22; C07C323-11; C07C323-20
 CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5
 IT **178044-94-5P** 179101-81-6P **184343-87-1P**
 194939-85-0P 194939-87-2P 194939-89-4P 194939-91-8P
 (preparation of (dihalopropenyloxy)benzenes as insecticides and
 acaricides and their intermediates)
 IT 2444-19-1P 2444-21-5P 178043-15-7P 178043-19-1P 194939-90-7P
194940-40-4P 194940-41-5P 194940-42-6P
 (preparation of (dihalopropenyloxy)benzenes as insecticides and
 acaricides and their intermediates)

L37 ANSWER 15 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:509101 HCAPLUS Full-text
 DOCUMENT NUMBER: 127:186984
 TITLE: Preparation of (3,3-dihalo-2-propenyloxy)benzene
 derivatives and their intermediates and
 insecticides and acaricides containing the
 derivatives
 INVENTOR(S): Izumi, Keiichi; Ikegami, Hiroshi; Suzuki, Masaya;
 Sakamoto, Noriyasu; Takano, Masataka
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 107 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09194417	A	19970729	JP 1996-3888	19960112
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PRIORITY APPLN. INFO.:			JP 1996-3888	19960112
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OTHER SOURCE(S): MARPAT 127:186984

ED Entered STN: 11 Aug 1997

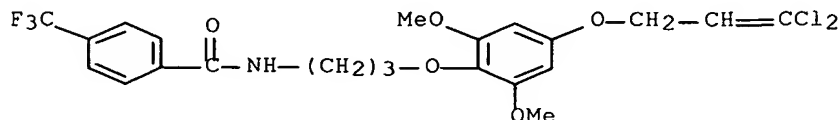
AB The title derivs. I [R = ZR1; R1 = aliphatic group which may substituted with
 halo or more complex group containing aromatic or heterocyclic group, etc.
 (Markush structures for these substituents given); Z = O, S; X = Cl, Br; R2=
 Cl-3 (halo)alkoxy, NO2, cyano; Y = Cl-3 alkyl, halo; n = 1-4; m = 0-3; n + m ≤
 4] (II) and their intermediates I (R = OH) are prepared Insecticides and
 acaricides containing II are also claimed. 1-(3,3-Dichloro-2-propenyloxy)-
 3,5-dimethoxy-4-[3-[4- (trifluoromethoxy)phenoxy]propyloxy]benzene, prepared
 by treatment of 3,5-Dimethoxy-4-[3-[4-
 (trifluoromethoxy)phenoxy]propyloxy]phenol (preparation given) with
 Cl2C:CHCH2Cl, controlled house flies. Formulations of II were also given.

IT 194286-23-2P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides and their intermediates)

RN 194286-23-2 HCAPLUS

CN Benzamide, N-[3-[4-[(3,3-dichloro-2-propenyl)oxy]-2,6-dimethoxyphenoxy]propyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IC ICM C07C043-225

ICS A01N031-16; A01N033-22; C07C043-23; C07C205-37; C07C233-69; C07D213-64

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 25

IT 194286-13-0P 194286-14-1P 194286-19-6P 194286-23-2P

194286-24-3P 194286-25-4P 194286-28-7P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides and their intermediates)

IT 125106-77-6P 178043-37-3P 194286-12-9P 194286-15-2P

194286-16-3P 194286-17-4P 194286-26-5P 194286-38-9P

194286-39-0P 194286-40-3P 194286-41-4P 194286-43-6P

194286-44-7P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides and their intermediates)

L37 ANSWER 16 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:751632 HCAPLUS Full-text

DOCUMENT NUMBER: 126:31173

TITLE: Preparation of phenyl-substituted dihalopropene insecticides

INVENTOR(S): Matsuo, Sanshiro; Hirose, Taro; Izumi, Keiichi; Suzuki, Masaya; Sakamoto, Noriyasu; Tsushima, Kazunori; Saito, Shigeru; Takano, Hirotaka

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 179 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9633160	A1	19961024	WO 1996-JP989	19960411
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
JP 09249610	A	19970922	JP 1996-84045	19960405

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JP 3814866	B2	20060830		
AU 9652878	A	19961107	AU 1996-52878	19960411
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EP 824514	A1	19980225	EP 1996-909336	19960411
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R: CH, DE, FR, GB, IT, LI				
CN 1187809	A	19980715	CN 1996-194792	19960411
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IL 117943	A	20001206	IL 1996-117943	19960417
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IL 130542	A	20001206	IL 1996-130542	19960417
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US 5952386	A	19990914	US 1997-913879	19970924
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US 6028100	A	20000222	US 1998-153859	19980916
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US 6214835	B1	20010410	US 1999-320281	19990602
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PRIORITY APPLN. INFO.:			JP 1995-92868	A 19950418
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			JP 1996-1774	A 19960109
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OTHER SOURCE(S): MARPAT 126:31173

ED Entered STN: 23 Dec 1996

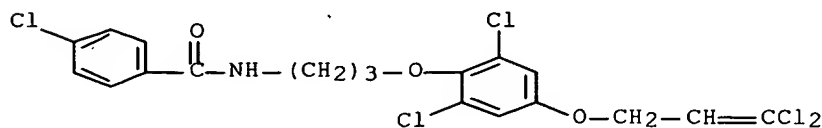
AB The title compds. [I; L = CO, CS, (un)substituted CONH, etc.; R1 = (un)substituted alkyl, (un)substituted alkenyl, (un)substituted cycloalkyl, etc.; R2-R4 = halogen, haloalkyl, alkyl; R5-R7 = H, alkyl, CF3; X = Cl, Br; Y = O, NH, S; Z = O, S. (un)substituted NH; m = 0-4; n = 0-2], effective for the control of noxious insects, are prepared and I-containing formulations presented. Thus, 3,5-dichloro-4-(3-aminopropoxy)-1-(3,3-dichloro-2-propenyloxy)benzene was amidated with 4-chlorobenzoyl chloride, producing 3,5-dichloro-4-[3-(4-chlorobenzamido)propoxy]-1-(3,3-dichloro-2-propenyloxy)benzene (m.p. 95.1°), which demonstrated an 80% control of *Plutella xylostella* at 25 ppm.

IT **184343-86-0P**

(preparation of phenyl-substituted dihalopropene insecticides)

RN 184343-86-0 HCAPLUS

CN Benzamide, 4-chloro-N-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propyl]- (9CI) (CA INDEX NAME)



- IC ICM C07C233-69
ICS C07C233-22; C07C235-24; C07C235-06; C07C311-29; C07C275-34;
C07C271-28; C07C271-16; C07D213-81; C07C235-48; C07C255-57;
C07D213-82; C07D333-38; C07D307-68; C07D209-42; A01N037-20;
A01N037-22; A01N047-30; A01N037-34; A01N047-12
- CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5
- IT **184343-86-0P 184343-87-1P** 184343-88-2P
184343-89-3P 184343-90-6P **184343-91-7P**
184343-92-8P 184343-93-9P 184343-94-0P
184343-95-1P **184343-96-2P 184343-97-3P**
184343-98-4P 184343-99-5P **184344-00-1P**
184344-01-2P 184344-02-3P 184344-03-4P
184344-04-5P 184344-05-6P 184344-06-7P
184344-07-8P **184344-08-9P 184344-09-0P**
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184344-76-1P 184344-77-2P 184344-78-3P 184344-79-4P
184344-80-7P 184344-81-8P 184344-82-9P 184344-83-0P
(preparation of phenyl-substituted dihalopropene insecticides)
- IT 1687-64-5P, 2-Ethyl-6-methylphenol 7564-39-8P 178043-12-4P
178043-36-2P 178043-37-3P 178043-45-3P
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184345-41-3P 184345-44-6P 184345-45-7P 184345-46-8P
184345-47-9P
(preparation of phenyl-substituted dihalopropene insecticides)

L37 ANSWER 17 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:457765 HCAPLUS Full-text
DOCUMENT NUMBER: 125:114466

TITLE: Preparation of dihalopropene insecticides and acaricides
 INVENTOR(S): Sakamoto, Noriyasu; Matsuo, Sanshiro; Suzuki, Masaya; Hirose, Taro; Tsushima, Kazunori; Umeda, Kimitoshi
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 218 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611909	A1	19960425	WO 1995-JP2080	19951012
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RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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AU 692930	B2	19980618		
EP 785923	A1	19970730	EP 1995-934276	19951012
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EP 785923	B1	20000405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CN 1169147	A	19971231	CN 1995-196682	19951012
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CN 1088061	B	20020724		
HU 77014	A2	19980302	HU 1997-2014	19951012
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BR 9509315	A	19980526	BR 1995-9315	19951012
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AT 191477	T	20000415	AT 1995-934276	19951012
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ES 2145301	T3	20000701	ES 1995-934276	19951012
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IL 130672	A	20000716	IL 1995-130672	19951012
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IL 115597	A	20000726	IL 1995-115597	19951012
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RU 2158260	C2	20001027	RU 1997-107997	19951012
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CN 1654455	A	20050817	CN 2005-10054414	19951012
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ZA 9508652	A	19960514	ZA 1995-8652	19951013
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JP 09151172	A	19970610	JP 1995-265986	19951013
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JP 3106928	B2	20001106		
EG 21672	A	20020227	EG 1995-854	19951014
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US 5922880	A	19990713	US 1997-809865	19970520
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GR 3033311	T3	20000929	GR 2000-400994	20000426
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JP 2000355582	A	20001226	JP 2000-161945	20000531
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JP 3835125	B2	20061018		
CN 1318535	A	20011024	CN 2001-116628	20010412
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US 6376428	B1	20020423	US 2001-864227	20010525
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US 2003073847	A1	20030417	US 2002-86888	20020304
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US 6589914	B2	20030708		
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			CN 2001-116628	A3 20010412
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			US 2001-864227	A3 20010525
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OTHER SOURCE(S): MARPAT 125:114466

ED Entered STN: 03 Aug 1996

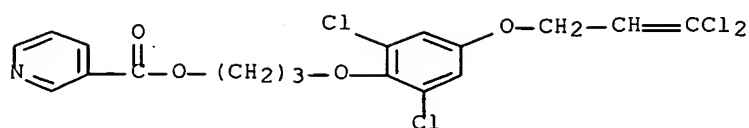
AB The title compds. [I; R1 = (un)substituted alkyl, (un)substituted alkenyl, etc; R2, R3, R10 = halogen, haloalkyl, alkyl; X = Cl, Br; Y = O, S, NH; Z = O, S, (un)substituted NH; t = 0-2], useful for the control of noxious insects, mites, and ticks, are prepared and I-containing formulations presented. Thus, 4-(3,3-dichloro-2-propenyloxy)-2,6-dichlorophenol was coupled with 2-(2-hydroxyethyl)thiophene in the presence of PPh₃ and diisopropyl azodicarboxylate, producing insecticidal 3,5-dichloro-4-[2-(2-thienyl)ethoxy]-1-[3,3-dichloro-2-propenyloxy]benzene in 62% yield.

IT 179101-99-6P

(preparation of dihalopropene insecticides and acaricides)

RN 179101-99-6 HCAPLUS

CN 3-Pyridinecarboxylic acid, 3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propyl ester (9CI) (CA INDEX NAME)



IC ICM C07D213-64
 ICS C07D319-20; C07D317-22; C07D231-12; C07D333-16; C07D307-42;
 C07D277-24; A01N043-00; C07D233-68; C07D307-46; C07D261-20

CC 27-8 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 5, 25

IT 178043-44-2P 178043-45-3P 179101-60-1P 179101-61-2P
 179101-72-5P 179101-73-6P 179101-74-7P 179101-75-8P
 179101-76-9P 179101-77-0P 179101-78-1P 179101-79-2P
 179101-80-5P 179101-81-6P 179101-82-7P 179101-83-8P
 179101-84-9P 179101-85-0P 179101-86-1P 179101-87-2P
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 179102-26-2P 179102-27-3P 179102-28-4P 179102-29-5P
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 (preparation of dihalopropene insecticides and acaricides)

IT 155916-12-4P 178043-28-2P **178043-36-2P** 178043-37-3P
 178043-38-4P 178043-39-5P 178043-40-8P 178043-41-9P
 178043-42-0P 178043-43-1P 179101-62-3P 179101-67-8P
 179101-68-9P 179101-69-0P 179101-70-3P 179101-71-4P
 (preparation of dihalopropene insecticides and acaricides)

L37 ANSWER 18 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:446594 HCAPLUS Full-text

DOCUMENT NUMBER: 125:114287

TITLE: Preparation of 1-(2-propenyloxy)benzene derivatives as insecticides and acaricides

INVENTOR(S): Matsuo, Sanshiro; Suzuki, Masaya; Sakamoto, Noryasu; Tsushima, Kazuhiro; Umeda, Kimitoshi

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 58 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08109156	A	19960430	JP 1994-245990	19941012
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PRIORITY APPLN. INFO.:			JP 1994-245990	19941012
			<--	

OTHER SOURCE(S): MARPAT 125:114287

ED Entered STN: 30 Jul 1996

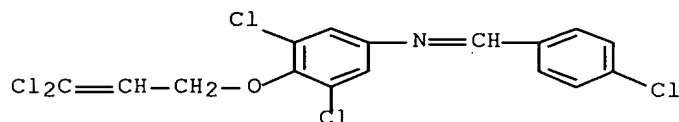
AB The title compds. [I; A = R1R10CH, Q, Q1; wherein R10 = H, C1-3 alkyl; R1 = H, halo, C1-10 alkyl, C1-5 haloalkyl, C2-10 alkenyl, C2-6 haloalkenyl, C3-9 (halo)alkynyl, C1-7 alkoxy, C1-3 alkylthio, C2-7 alkoxyalkyl or alkylthioalkyl, etc.; or R1 and R10 are bonded together at the termini to form (un)substituted (CH2)_n (n = 2-5), CH:CHCH2CH2, CH2CH:CHCH2, CH:CH(CH2)3, CH2CH:CHCH2CH2; R6 = halo, cyano, NO2, C1-8 alkyl, C1-3 haloalkyl, C1-7 alkoxy, C1-3 haloalkoxy, etc.; or adjacent 2 R6 are linked together to form (CH2)3, (CH2)4, methylenedioxy, or ethylenedioxy; R7, R8, R11 = H, C1-3 alkyl, CF3; Z = O, S, NH, C1-3 alkylimino; l = 0-5; p = 0-6; q = 1-6; R2, R3, R4 = H, halo, C1-3 alkyl, or CF3, provided that R2, R3, and R4 are not simultaneously H; R5 = H, C1-3 alkyl; X = Cl, Br; Y = O, NH, S] are prepared Thus, 3,5-dichloro-4-hydroxy-N-(4-chlorobenzylidene)aniline 2.00, 1,1,3-trichloropropene 0.96, and K2CO3 1.02 g were stirred in DMF at room temperature for 12 h to give 76% 3,5-dichloro-4-(3,3-dichloro-2-propenyloxy)-N-(4-chlorobenzylidene)aniline, which was reduced by NaBH4 in EtOH at room temperature for 6 h to give the title compound (II) in 76% yield. An artificial feed soaked with a diluted emulsion of 500 ppm II killed 100% *Spodoptera litura* larvae.

IT 178942-29-5P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides)

RN 178942-29-5 HCAPLUS

CN Benzenamine, 3,5-dichloro-N-[(4-chlorophenyl)methylene]-4-[(3,3-dichloro-2-propenyl)oxy]- (9CI) (CA INDEX NAME)



IC ICM C07C211-50

ICS A01N033-06; A01N033-10; C07C211-52; C07C217-84; C07C323-37

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 3460-23-9P, 4'-Bromo-2'-chloroacetanilide 56074-07-8P,

2'-Chloro-4'-hydroxyacetanilide 178942-29-5P

178942-30-8P 178942-31-9P 178942-32-0P

178942-33-1P 178942-34-2P 178942-35-3P

178942-36-4P 178942-37-5P 178942-38-6P 178942-39-7P

178942-40-0P 178942-41-1P 178942-42-2P 178942-43-3P

(preparation of (dihalopropenyloxy)benzene derivs. as insecticides and acaricides)

L37 ANSWER 19 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:379674 HCAPLUS Full-text

DOCUMENT NUMBER: 125:58089

TITLE: Preparation of substituted phenyl-containing dihalopropene insecticides and acaricides

INVENTOR(S): Sakamoto, Noriyasu; Suzuki, Masaya; Tsushima, Kazunori; Umeda, Kimitoshi

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 239 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604228	A1	19960215	WO 1995-JP1439	19950720
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RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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JP 3834838	B2	20061018		
CA 2172709	A1	19960215	CA 1995-2172709	19950720
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AU 9529369	A	19960304	AU 1995-29369	19950720
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AU 692894	B2	19980618		
EP 722430	A1	19960724	EP 1995-925148	19950720
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EP 722430	B1	19981021		
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CN 1137265	A	19961204	CN 1995-190997	19950720
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CN 1128777	B	20031126		
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BR 9506309	A	19970805	BR 1995-6309	19950720
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ES 2124570	T3	19990201	ES 1995-925148	19950720
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RU 2144526	C1	20000120	RU 1996-113040	19950720
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IL 126135	A	20000229	IL 1995-126135	19950725
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IL 126136	A	20000229	IL 1995-126136	19950725
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IL 114724	A	20000601	IL 1995-114724	19950725
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ZA 9506312	A	19960304	ZA 1995-6312	19950728
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IN 1995MA00963	A	20050225	IN 1995-MA963	19950728
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MX 9601249	A	20000831	MX 1996-1249	19960401
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US 5872137	A	19990216	US 1997-917372	19970826
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PRIORITY APPLN. INFO.:			JP 1994-183461	A 19940804
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			JP 1994-243931	A 19941007
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			JP 1995-89737	A 19950414

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 WO 1995-JP1439 W 19950720
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 IL 1995-114724 A3 19950725
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 US 1996-624488 B1 19960404
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OTHER SOURCE(S): MARPAT 125:58089

ED Entered STN: 02 Jul 1996

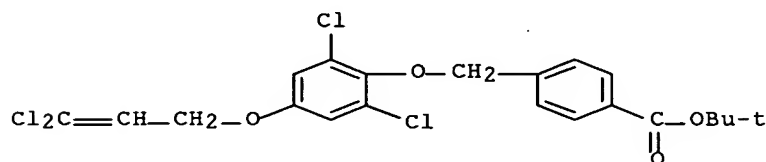
AB The title compds. [I; R1 = (un)substituted alkyl, haloalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, etc.; R2, R3, R14 = halogen, haloalkyl, alkyl; X = Cl, Br; Y = O, NH, S], which have insecticidal and acaricidal activity, are prepared and I-containing formulations presented. Thus, 4-(3,3-dichloro-2-propenyloxy)-2,6-dichlorophenol was reacted with 4-phenyl-1-butanol in the presence of PPh3 and di-Et azodicarboxylate, producing pesticidal 3,5-dichloro-1-(3,3-dichloro-2-propenyloxy)-4-(4-phenylbutyloxy)benzene in 73% yield.

IT **178043-59-9P**

(preparation of substituted phenyl-containing dihalopropene insecticides and acaricides)

RN 178043-59-9 HCAPLUS

CN Benzoic acid, 4-[[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IC ICM C07C043-225

ICS A01N031-16; A01N033-02; A01N037-12; A01N043-08; C07C069-76; C07C217-04; C07C323-12; C07C323-20; C07C043-23

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

IT	178043-09-9P	178043-10-2P	178043-11-3P	178043-50-0P
	178043-51-1P	178043-52-2P	178043-53-3P	178043-54-4P
	178043-55-5P	178043-56-6P	178043-57-7P	178043-58-8P
	178043-59-9P	178043-60-2P	178043-61-3P	178043-62-4P
	178043-63-5P	178043-64-6P	178043-65-7P	178043-66-8P
	178043-67-9P	178043-68-0P	178043-69-1P	178043-70-4P
	178043-71-5P	178043-72-6P	178043-73-7P	178043-74-8P
	178043-75-9P	178043-76-0P	178043-77-1P	178043-78-2P
	178043-79-3P	178043-80-6P	178043-81-7P	178043-82-8P
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178045-82-4P	178045-83-5P	178045-84-6P	178045-85-7P
178045-86-8P	178045-87-9P	178045-88-0P	
178045-89-1P			

(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

IT	178045-90-4P	178045-91-5P	178045-92-6P	178045-93-7P
	178045-94-8P	178045-95-9P	178045-96-0P	178045-97-1P
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178046-25-8P **178046-26-9P** **178046-27-0P**
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(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

IT 1687-64-5P, 2-Ethyl-6-methylphenol 2444-21-5P 7564-39-8P
 75906-34-2P 102793-82-8P 147351-66-4P 178043-19-1P
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 178043-48-6P 178043-49-7P

(preparation of substituted phenyl-containing dihalopropene insecticides

and

acaricides)

L37 ANSWER 20 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:871989 HCAPLUS Full-text

DOCUMENT NUMBER: 123:285501

TITLE: Preparation of dihalopropene aryl ethers as insecticides and acaricides.

INVENTOR(S): Sakamoto, Noriyasu; Suzuki, Masaya; Nagatomi, Toshio; Tsushima, Kazunori; Umeda, Kimitoshi

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 113 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 648729	A1	19950419	EP 1994-116487	19941019
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EP 648729	B1	19980715		
R: CH, DE, ES, FR, GB, IT, LI				
JP 07188088	A	19950725	JP 1994-242660	19941006
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JP 3823329	B2	20060920		
AU 9475880	A	19950511	AU 1994-75880	19941017
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CN 1108642	A	19950920	CN 1994-117139	19941019
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US 5530015	A	19960625	US 1994-325597	19941019
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ES 2119046	T3	19981001	ES 1994-116487	19941019
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OTHER SOURCE(S): CASREACT 123:285501; MARPAT 123:285501

ED Entered STN: 24 Oct 1995

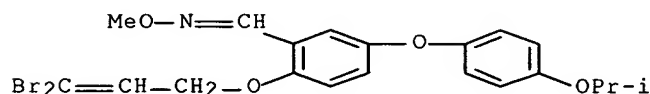
AB Title compds. I (l = 1-5; m = 1-4; R1 = halo, NC, AcNH, F3CCONH, O2N, Cl-8 alkyl, Cl-3 haloalkyl, Cl-7 alkoxy, C3-6 cycloalkyl, Ph, pyridyloxy, PhO, PhCH2, etc.; R2 = halo, Cl-5 alkyl, Cl-3 alkoxy, C2-4 alkenyl, (substituted) Ph, etc.; D = O, NH, S; X = Br, Cl; Y = O, (substituted) NH, etc.; Z, P, Q = N, CH), are prepared. The intermediates for I are also prepared. 3-Ethyl-4-(4-isopropoxyphenoxy)phenol (preparation given), K2CO3, DMF, and 1,1,3-tribromo-1-propene were added at room temperature for 12 h to give I (R11 = 4-Me2CHO, R2m = 3-Et, D = Y = O, X = Br, Z = P = Q = CH) (II). In test against *Spodoptera litura* II at 500 ppm exhibited not less than 80% mortality.

IT 169244-99-9P

(preparation of dihalopropene aryl ethers as insecticides and acaricides)

RN 169244-99-9 HCAPLUS

CN Benzaldehyde, 2-[(3,3-dibromo-2-propenyl)oxy]-5-[4-(1-methylethoxy)phenoxy]-, O-methyloxime (9CI) (CA INDEX NAME)



IC ICM C07C043-29

ICS A01N031-08; A01N043-40; C07D213-64; C07C043-295; C07C043-225; C07C323-20; C07D213-74

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5, 27

IT	169243-87-2P	169243-88-3P	169243-89-4P	169243-90-7P
	169243-91-8P	169243-92-9P	169243-93-0P	169243-94-1P
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	169243-99-6P	169244-00-2P	169244-01-3P	169244-02-4P
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	(preparation of dihalopropene aryl ethers as insecticides and acaricides)			
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169247-34-1P	169247-35-2P		

(preparation of dihalopropene aryl ethers as insecticides and acaricides)

L37 ANSWER 21 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:157784 HCAPLUS Full-text

DOCUMENT NUMBER: 112:157784

TITLE: Bis- α -hydrohexafluoroisobutyrate and bispentafluoromethacrylates

AUTHOR(S): Bargamov, G. G.; Rokhlin, E. M.; Galakhov, M. V.; Mysov, E. I.

CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1989), (7), 1645-8

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 112:157784

ED Entered STN: 28 Apr 1990

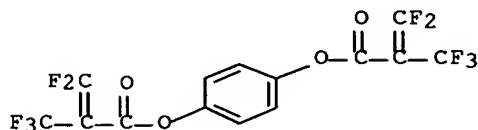
AB Addition reaction of $(CF_3)_2C:C:O$ to $HOZOH$ [$Z = (CH_2)_2, (CH_2)_4, 1,4\text{-phenylene}$] in Et_2O at 0° gave 72-92% [$(CF_3)_2CHCO_2SO_2]_2Z$ (I) which were dehydrofluorinated by $Et_3N \cdot BF_3$ to give $[F_2C:C(CF_3)CO_2]_2Z$. Bromination of I ($Z = 1,4\text{-phenylene}$) gave 59% [$(CF_3)_2CBrCO_2]_2Z$ and treatment with aqueous Et_3N gave $(CF_3CH_2CO_2)_2Z$. Addnl. obtained was polymeric $[CF_2CH(CF_3)CO_2CH_2CH_2O_2CCH(CF_3)CF_2OCH_2CH_2O]_n$.

IT **125467-02-9P**

(preparation of)

RN 125467-02-9 HCAPLUS

CN 2-Propenoic acid, 3,3-difluoro-2-(trifluoromethyl)-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 125466-52-6P **125467-02-9P** **125467-03-0P**

125489-27-2P 125503-42-6P 125503-43-7P 125954-21-4P

(preparation of)

L37 ANSWER 22 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:457289 HCAPLUS Full-text

DOCUMENT NUMBER: 111:57289

TITLE: Preparation of substituted aminophenyl carbamates
as agrochemical fungicides

INVENTOR(S): Kruger, Bernd Wieland; Sasse, Klaus; Heitkamper,
Peter; Konig, Klaus; Brandes, Wilhelm; Hanssler,
Gerd; Marhold, Albrecht

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 293718	A2	19881207	EP 1988-108239	19880524
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EP 293718	A3	19900131		
EP 293718	B1	19930203		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 3804288	A1	19881215	DE 1988-3804288	19880212
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US 4939170	A	19900703	US 1988-197009	19880520
			<--	
ES 2043725	T3	19940101	ES 1988-108239	19880524
			<--	
JP 63310861	A	19881219	JP 1988-128585	19880527
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JP 2574397	B2	19970122		
BR 8802684	A	19881227	BR 1988-2684	19880602
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AU 8817327	A	19881208	AU 1988-17327	19880603
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AU 618264	B2	19911219		
US 5260474	A	19931109	US 1992-852484	19920316
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US 5371271	A	19941206	US 1993-90342	19930818
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PRIORITY APPLN. INFO.:			DE 1987-3718522	A 19870603
			<--	
			DE 1988-3804288	A 19880212
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			US 1988-197009	A3 19880520
			<--	
			US 1990-473552	B1 19900201
			<--	
			US 1992-852484	A3 19920316
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OTHER SOURCE(S): CASREACT 111:57289; MARPAT 111:57289

ED Entered STN: 20 Aug 1989

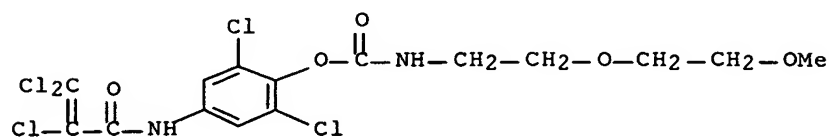
AB Y1Y2Y3Y4 (XHN)C6OCONR1CR2R3CR4R5 (CR6R7)nOZ [I; R1-R7 = H, alkyl, haloalkyl, alkoxyalkyl; X = H, CONR8R9, CO2R9, COSR9, COR10, SO2R9; R8 = H, alkyl; R9 = (un)substituted alkyl, aryl, etc.; R10 = R9, (un)substituted heterocyclyl; Y1-Y4 = H, halo, NO2, etc.; Z = alkyl, haloalkyl, CR11R12CR13R14OR15; R11-R14 = R1; R15 = alkyl, haloalkyl, alkoxyalkyl; n = 0, 1] were prepared 2,4-Cl(Me3CCOHN)C6H3OH was stirred 2 h with MeOCH2CH2NCO (preparation given) in PhMe containing DBU to give 90% 2,4-Cl(Me3CCOHN)C6H3OCONHCH2CH2OMe. 4-(Me2CHCH2OCOHN)C6H4OCONH(CH2CH2 O)2Me, sprayed at 0.025%, gave 90-100% protection against Pyricularia oryzae on rice plants.

IT 121576-75-8P

(preparation of, as agrochem. fungicide)

RN 121576-75-8 HCAPLUS

CN Carbamic acid, [2-(2-methoxyethoxy)ethyl]-, 2,6-dichloro-4-[(2,3,3-trichloro-1-oxo-2-propenyl)amino]phenyl ester (9CI) (CA INDEX NAME)



IC ICM C07C125-06

ICS C07C127-19; C07D319-06; C07C091-44; C07C079-26; A01N047-22;
A01N047-20; A01N047-30CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT	121554-86-7P	121554-87-8P	121554-88-9P	121554-89-0P
	121554-90-3P	121554-91-4P	121554-92-5P	121554-93-6P
	121554-94-7P	121554-95-8P	121554-96-9P	121554-97-0P
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	121576-76-9P	121576-77-0P		

(preparation of, as agrochem. fungicide)

L37 ANSWER 23 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:196007 HCAPLUS Full-text

DOCUMENT NUMBER: 106:196007

TITLE: Reaction of substituted o-nitroanilines with
unsaturated chlorine-containing acidsAUTHOR(S): Molchanov, L. V.; Ayupova, A. T.; Eshimbetov, Zh.;
Aliev, N. A.

CORPORATE SOURCE: Tashk. S-Kh. Inst., Tashkent, USSR

SOURCE: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im.
D. I. Mendeleeva (1986), 31(4), 464-5
CODEN: ZVKOA6; ISSN: 0373-0247

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 106:196007

ED Entered STN: 13 Jun 1987

AB Amidation of 2,4-(O2N)RC6H3NH2 (I; R = H, Me, Cl, NO2) with R1R2C:CClCO2H (R1,
R2 = H, Cl) in xylene containing P2O5 gave 27-70% 2,4-(O2N)RC6H3NHCOC1:CR1R2

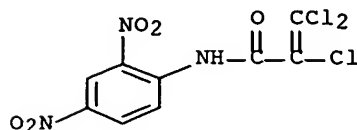
(same R-R2). Amidation of I (R = H, Me, Cl) in xylene containing P2O5 with $\text{CCl}_2:\text{CClCCl}:\text{CClCO}_2\text{H}$ gave 2,4-(O2N)ClC6H3NCOCCl:CClCCl:CCl2 and 35-50% II (same R; R3 = OH). I (R = NO2) gave 2% II (R = NO2, R3 = Cl) (III). III gave 100% II (R = NO2, R3 = OH) when boiled in EtOH containing 1% NaOH.

IT 108201-59-8P

(preparation of)

RN 108201-59-8 HCAPLUS

CN 2-Propenamide, 2,3,3-trichloro-N-(2,4-dinitrophenyl)- (9CI) (CA INDEX NAME)



CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 27

IT 955-51-1P 958-86-1P 28139-21-1P 80460-18-0P 108201-52-1P
108201-53-2P 108201-54-3P 108201-55-4P 108201-56-5P
108201-57-6P 108201-58-7P 108201-59-8P 108201-62-3P
108201-63-4P 108201-64-5P 108201-65-6P

(preparation of)

L37 ANSWER 24 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:151627 HCAPLUS Full-text

DOCUMENT NUMBER: 106:151627

TITLE: Formamide oxime derivative fungicides and insecticides

INVENTOR(S): Hayakawa, Koichi; Nishikawa, Hiroaki; Hashimoto, Akira

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 64 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61165360	A	19860726	JP 1985-5403	19850116
			<--	
PRIORITY APPLN. INFO.:			JP 1985-5403	19850116
			<--	

OTHER SOURCE(S): CASREACT 106:151627

ED Entered STN: 15 May 1987

AB Formamide oxime derivs. I [X = halo, NO2, CN, CHO, alkylcarbonyl, CO2H, alkoxy carbonyl, alkenyloxy carbonyl, alkynyloxy carbonyl, CONH2, alkylcarbonyl, etc.; B = O, S, SO, SO2, NR1; Y = H, halo, CN, cycloalkyl, alkylcarbonyloxy, alkylcarbonyl, alkoxy carbonyl, OH, alkoxy, alkylthio, ureido, etc.; m, n = 0-5; R = (un)substituted Ph, halo, CN, alkoxy, alkylthio, alkoxy carbonyl, etc.; R1 = H, alkyl] are prepared as fungicides and insecticides. Thus, 27.9 g 4-amino-2,6-diethylphenol was treated with HC(OEt)_3 in 100 mL AcOEt followed by treatment with 11.2 g EtONH_2 to give 37.89 g N-(3,5-diethyl-4-hydroxyphenyl)-N'-ethoxyformamidine. To 9.0 g of this product was added 6.55 g EtI and 5.3 g

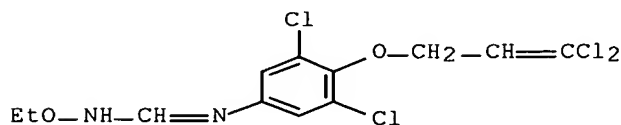
K₂CO₃ in 50 mL acetone to give 9.9 g N-(3,5-diethyl-4-ethoxyphenyl)-N'-ethoxyformamidine (II). II, applied at 200 ppm, totally controlled Botrytis cinerea on bean.

IT 98866-53-6P

(preparation of, as fungicide and insecticide)

RN 98866-53-6 HCAPLUS

CN Methanimidamide, N-[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]-N'-ethoxy- (9CI) (CA INDEX NAME)



IC ICM C07C131-00

ICS A01N037-52; A01N043-20; A01N043-30; A01N047-24; C07C143-68;
C07C145-00; C07C147-12; C07C147-14; C07C149-42; C07C149-437;
C07D303-36; C07D317-28

CC 5-4 (Agrochemical Bioregulators)

IT	98852-60-9P	98852-61-0P	98852-62-1P	98852-63-2P	98852-64-3P
	98852-65-4P	98852-66-5P	98852-67-6P	98852-68-7P	98852-69-8P
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	98866-71-8P	98866-72-9P	98866-73-0P	98866-74-1P	98866-75-2P
	98866-76-3P	98866-77-4P	98866-78-5P	98866-79-6P	98866-80-9P
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	aluminum complex	98867-00-6P	98867-01-7P	98867-02-8P	
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99155-43-8P	99520-14-6P	99568-54-4P	104451-12-9P	104451-14-1P
104451-16-3P	104451-17-4P	104939-71-1P	104939-72-2P	
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104939-93-7P	104941-16-4P	104941-17-5P	104941-20-0P	
104941-21-1P	104941-22-2P	104941-23-3P	104941-25-5P	
104941-26-6P	104941-27-7P			

(preparation of, as fungicide and insecticide)

L37 ANSWER 25 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:67307 HCAPLUS Full-text

DOCUMENT NUMBER: 106:67307

TITLE: Azolylcarboxamidine derivatives as insecticides

INVENTOR(S): Igura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio;
Takahashi, Eiko; Hatano, Renpei

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 61129161	A	19860617	JP 1984-249263	19841126
			<--	
PRIORITY APPLN. INFO.:			JP 1984-249263	19841126
			<--	

OTHER SOURCE(S): CASREACT 106:67307

ED Entered STN: 07 Mar 1987

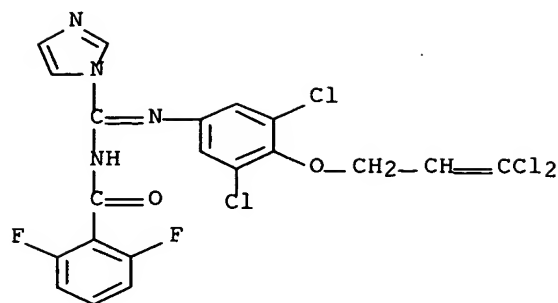
AB The title compds. (I; A = imidazolyl, pyrazolyl, triazolyl, etc.; R1-3 = H, halo, NO2, etc.; X1, X2 = H, halo, Me, CF3), effective insecticides at 125-500 ppm, are prepared Thus, 1.5 g SOCl2 was added to a solution of 3.5 g imidazole in CH2Cl2 under cooling, followed by 4.5 g II, and the mixture stirred at room temperature to give 3.4 g I (A = 1-imidazolyl, R1 = CF3, R2 = Cl, R3 = H, X1 = X2 = F).

IT **96545-55-0P**

(preparation of, as insecticide)

RN 96545-55-0 HCAPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)



IC	ICM	C07C149-24		
	ICS	A01N041-12; A01N043-48; A01N043-64; C07D231-12; C07D231-16; C07D233-61; C07D235-06; C07D235-08; C07D249-08; C07D249-18		
CC	28-9	(Heterocyclic Compounds (More Than One Hetero Atom))		
	Section cross-reference(s):	5		
IT	96530-82-4P	96530-83-5P	96530-84-6P	96530-85-7P
	96530-87-9P	96530-88-0P	96530-89-1P	96530-90-4P
	96530-92-6P	96530-93-7P	96530-94-8P	96530-95-9P
	96530-97-1P	96530-98-2P	96530-99-3P	96531-00-9P
	96531-02-1P	96531-03-2P	96531-04-3P	96531-05-4P
	96531-07-6P	96531-08-7P	96531-09-8P	96531-10-1P
	96531-12-3P	96531-13-4P	96531-14-5P	96531-15-6P
	96531-17-8P	96531-18-9P	96531-19-0P	96531-20-3P
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	96531-42-9P	96531-43-0P	96531-44-1P	96531-45-2P
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 106329-40-2P 106329-41-3P 106329-42-4P 106329-43-5P

(preparation of, as insecticide)

L37 ANSWER 26 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:460601 HCAPLUS Full-text

DOCUMENT NUMBER: 105:60601

TITLE: Imidazolecarboxamidines as insecticides

INVENTOR(S): Igura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio;
 Takahashi, Eiko; Hatano, Renpei

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60252467	A	19851213	JP 1984-106637	19840528
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PRIORITY APPLN. INFO.:			JP 1984-106637	19840528
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OTHER SOURCE(S): CASREACT 105:60601

ED Entered STN: 23 Aug 1986

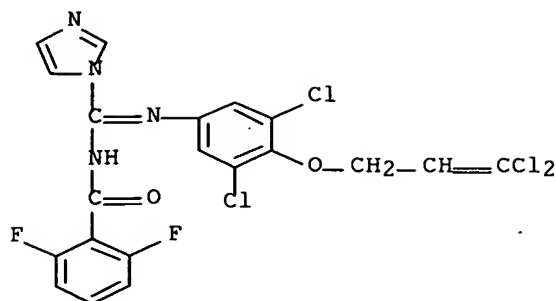
AB Insecticidal I [R = halo, Me; R1 = H, halo; R2 = H, halo, C1-6 haloalkyl; R3 = H, halo, NO2, C1-8 alkyl, C1-6 haloalkyl, alkoxycarbonyl, dialkylamino, (C1-3 alkyl substituted) phenylazo, etc.; R4 = H, halo; NO2, C1-6 alkyl, C2-6 alkenyloxy, alkynyloxy, (NO2 substituted) PhO; R7 = imidazolyl, triazolyl, (halo or alkyl substituted) pyrazolyl, benzimidazolyl, benzotriazolyl] and their metal salts were prepared by treating thioureas II with R7SOR7. Thus, 0.9 g SOCl2 was added dropwise to 1.8 g benzimidazole in CH2Cl2 in the presence of Et3N with ice cooling and the mixture treated with 3 g II (R = R1 = F, R2 = R3 = R4 = Cl) at room temperature for 5 h to give 2.7 g I (R = R1 = F, R2 = R3 = R4 = Cl, R7 = 1-benzimidazolyl), whose aqueous solution (1500 ppm) killed eggs of tobacco cutworm completely.

IT 96545-55-0P

(preparation of, as insecticide)

RN 96545-55-0 HCAPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)



IC ICM C07D233-60
ICS A01N047-42; C07D231-16; C07D235-06; C07D249-08
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5
IT 96530-85-7P 96530-86-8P 96530-88-0P 96530-89-1P 96530-90-4P
96530-92-6P 96531-38-3P 96531-39-4P 96531-40-7P 96531-41-8P
96531-42-9P 96531-44-1P 96531-45-2P 96531-46-3P 96531-47-4P
96531-48-5P 96531-53-2P 96531-54-3P 96545-29-8P 96545-30-1P
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96545-44-7P 96545-45-8P 96545-46-9P 96545-48-1P 96545-50-5P
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(preparation of, as insecticide)

L37 ANSWER 27 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:578031 HCAPLUS Full-text
DOCUMENT NUMBER: 103:178031
TITLE: Formamidoxime derivatives
INVENTOR(S): Hayakawa, Koichi; Nishikawa, Hiroaki; Hashimoto, Sho
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 151 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 132881	A1	19850213	EP 1984-201035	19840711
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R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 60019759	A	19850131	JP 1983-127825	19830715
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JP 60078954	A	19850504	JP 1983-187004	19831007
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JP 60078955	A	19850504	JP 1983-187005	19831007
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JP 60174757	A	19850909	JP 1984-29504	19840221
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JP 60174758	A	19850909	JP 1984-29505	19840221
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JP 60174759	A	19850909	JP 1984-29506	19840221
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JP 60178854	A	19850912	JP 1984-35020	19840225
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JP 60215603	A	19851029	JP 1984-69129	19840409
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AU 8430229	A	19850117	AU 1984-30229	19840703
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IN 158923	A1	19870221	IN 1984-CA489	19840709
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DK 8403469	A	19850116	DK 1984-3469	19840713
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SE 8403711	A	19850116	SE 1984-3711	19840713
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BR 8403509	A	19850625	BR 1984-3509	19840713
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HU 36088	A2	19850828	HU 1984-2744	19840713
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ES 534320	A1	19851001	ES 1984-534320	19840713
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DD 228155	A5	19851009	DD 1984-265268	19840713
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DD 235252	A5	19860430	DD 1984-277960	19840713
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DD 239592	A5	19861001	DD 1984-277961	19840713
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FI 8402861	A	19850116	FI 1984-2861	19840716
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RO 93860	B3	19880229	RO 1984-124997	19840716
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RO 93861	B3	19880229	RO 1984-124998	19840716
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RO 93863	B3	19880229	RO 1984-125000	19840716
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RO 91187	B3	19880330	RO 1984-115258	19840716
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ES 542534	A1	19860101	ES 1985-542534	19850424
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ES 542535	A1	19860101	ES 1985-542535	19850424
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ES 544385	A1	19860116	ES 1985-544385	19850620
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PRIORITY APPLN. INFO.:			JP 1983-127825	A 19830715
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JP 1983-187005 A 19831007
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 HU 1984-2744 A 19840713
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OTHER SOURCE(S): CASREACT 103:178031

ED Entered STN: 30 Nov 1985

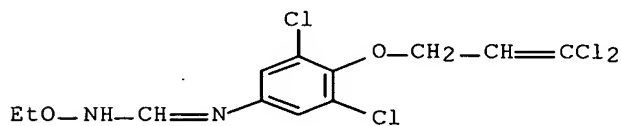
AB N-Phenylformamidoximes I [each of m and n is 0, 1, 2, 3, 4, 5; R = halo, NO₂, cyano, HCO, alkanoyl, CO₂H, esterified CO₂H, carbamoyl; oxygenated heteroaryl, saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl; Z = O, S, SO, SO₂, NH, alkylimino; R₁ = saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl, or (ZR₁)_n is a doubling radical; R₂ = saturated or unsatd. hydrocarbyl, substituted saturated or unsatd. hydrocarbyl], which were prepared, showed pesticidal, insecticidal, and acaricidal activity. Thus, 3,4,5-Me(EtO)2C₆H₂N:CHOEt was stirred with EtONH₂ at room temperature to give 3,4,5-Me(EtO)2C₆H₂NHCH:NOEt.

IT 98866-53-6P

(preparation and insecticidal activity of)

RN 98866-53-6 HCAPLUS

CN Methanimidamide, N-[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]-N'-ethoxy- (9CI) (CA INDEX NAME)



IC ICM C07C131-00

ICS C07C149-14; C07C149-42; C07C147-14; C07D303-22; C07D317-28;
 A01N037-52

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5, 23

IT 98850-37-4P 98850-67-0P 98850-78-3P 98851-31-1P 98851-66-2P
 98851-67-3P 98851-68-4P 98851-69-5P 98866-53-6P
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 98867-21-1P 98867-23-3P 98867-45-9P

(preparation and insecticidal activity of)

L37 ANSWER 28 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:422593 HCAPLUS Full-text

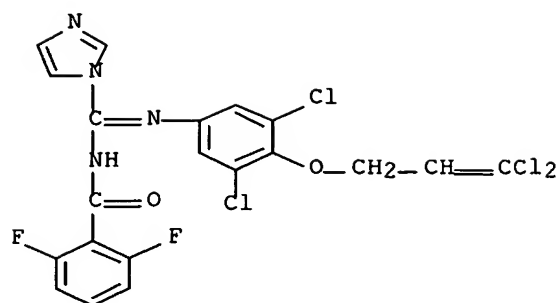
DOCUMENT NUMBER: 103:22593

TITLE: Carboxamidine derivatives

INVENTOR(S): Ikura, Katsuyata; Hayakawa, Koichi; Yamada, Tomio;

PATENT ASSIGNEE(S): Takahashi, Hidemitsu; Hatano, Renpei
 SOURCE: Nippon Soda Co., Ltd. , Japan
 Eur. Pat. Appl., 62 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 127245	A2	19841205	EP 1984-200786	19840530
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R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
JP 59222479	A	19841214	JP 1983-94839	19830531
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JP 60025971	A	19850208	JP 1983-131989	19830721
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JP 60078961	A	19850504	JP 1983-185525	19831004
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ZA 8403486	A	19841224	ZA 1984-3486	19840509
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AU 8427928	A	19841206	AU 1984-27928	19840511
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AU 547704	B2	19851031		
HU 34103	A2	19850228	HU 1984-2110	19840530
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BR 8402600	A	19850430	BR 1984-2600	19840530
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DD 228154	A5	19851009	DD 1984-263580	19840530
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ES 532963	A1	19860401	ES 1984-532963	19840530
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ES 540893	A1	19851201	ES 1985-540893	19850301
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PRIORITY APPLN. INFO.:			JP 1983-94839	A 19830531
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			JP 1983-131989	A 19830721
<--				
			JP 1983-185525	A 19831004
<--				
OTHER SOURCE(S):		CASREACT 103:22593; MARPAT 103:22593		
ED	Entered STN: 27 Jul 1985			
AB	Carboxamidines I [R, R1 = H, halogen, Me, CF3; R2 = (un)substituted 1-benzimidazolyl, 1-benzotriazolyl, 1-pyrazolyl, 1-triazolyl, 1-imidazolyl, SSR6; R3, R5 = H, halogen, NO2, haloalkyl, alkenyloxy, (un)substituted PhO, quinoxalinyloxy; R4 = H, halogen, NO2, alkyl, haloalkyl, alkoxycarbonyl, dialkylamino, arylazo, (un)substituted alkoxy, alkylthio, PhO, PhS, heterocyclyloxy, heterocyclylthio; R6 = Cl-18 alkyl, cycloalkyl, aralkyl] (229 compds.) were prepared Thus, 2,6-F2C6H3CONHCSNHC6H3(CF3)F-3,4 was treated with imidazole to give I (R = R1 = R4 = F, R2 = imidazolyl, R3 = CF3, R5 = H, II). At 31.3 ppm II gave 100% kill of tobacco cutworm larvae on sweet potato leaves.			
IT	96545-55-0P (preparation and insecticidal activity of)			
RN	96545-55-0 HCAPLUS			
CN	Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]-1H-imidazol-1-ylmethylene]-2,6-difluoro-(9CI) (CA INDEX NAME)			



IC C07D233-61; C07D235-06; C07D235-08; C07D249-08; C07D231-16;
C07D231-12; C07D403-12; C07C157-14; A01N047-42; A01N047-44

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT	96530-82-4P	96530-83-5P	96530-84-6P	96530-85-7P	96530-86-8P
	96530-87-9P	96530-88-0P	96530-89-1P	96530-90-4P	96530-91-5P
	96530-92-6P	96530-93-7P	96530-94-8P	96530-95-9P	96530-96-0P
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96545-83-4P	96545-84-5P	96545-85-6P	96545-86-7P	96545-87-8P
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96545-93-6P	96545-94-7P	96545-95-8P	96545-96-9P	96545-97-0P
96572-60-0P	96572-61-1P	96572-62-2P	96572-63-3P	96572-64-4P
96611-45-9P	96906-19-3P			

(preparation and insecticidal activity of)

L37 ANSWER 29 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:125621 HCAPLUS Full-text

DOCUMENT NUMBER: 98:125621

TITLE: Nitroarylalkylsulfone derivatives as gametocides

INVENTOR(S): Fankhauser, Ernst; Sturm, Elmar

PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.

SOURCE: Eur. Pat. Appl., 57 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 63101	A1	19821020	EP 1982-810152	19820406
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EP 63101	B1	19870401		
R: AT, BE, CH, DE, FR, IT, NL				
US 4459152	A	19840710	US 1982-365684	19820405
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AT 26260	T	19870415	AT 1982-810152	19820406
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GB 2102782	A	19830209	GB 1982-10563	19820408
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GB 2102782	B	19841017		
CA 1189341	A1	19850625	CA 1982-400724	19820408
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HU 31921	A2	19840628	HU 1982-1110	19820409
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IL 65478	A	19860331	IL 1982-65478	19820412
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AU 8282572	A	19821021	AU 1982-82572	19820413
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AU 547800	B2	19851107		
ZA 8202466	A	19830330	ZA 1982-2466	19820413
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ES 511380	A1	19830701	ES 1982-511380	19820413
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JP 57179104	A	19821104	JP 1982-62273	19820414
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GB 2134114	A	19840808	GB 1984-4737	19840223
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GB 2134114	B	19850327		
CA 1189536	A2	19850625	CA 1984-457504	19840626
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PRIORITY APPLN. INFO.:			CH 1981-2478	A 19810414
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			EP 1982-810152	A 19820406
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			CA 1982-400724	A3 19820408

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GB 1982-10563 A3 19820408
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OTHER SOURCE(S): MARPAT 98:125621

ED Entered STN: 12 May 1984

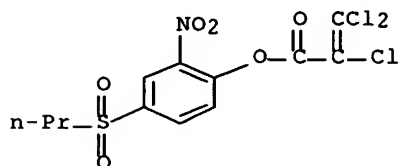
AB The title sulfones I [R1 = C1-6 alkyl; R2, R3 independently = H, C1-6 alkyl, alkoxy, or haloalkyl, halo, cyano, NO2, NH2; o-R2R3 = (CH:CH)2; R4 = H, cation, COR5 (R5 = C1-12 alkyl, alkoxy, or haloalkoxy, C2-10 (halo)alkenyl or alkynyl, C3-7 cycloalkyl, Ph, CH2Ph, (tetrahydro)furyl; cyclic R5 may be substituted], useful as gametocides, fungicides, and bactericides, were prepared Hydrolysis of 4,3-Cl(O2N)C6H3SO2Me with 30% NaOH gave 4,3-HO(O2N)C6H3SO2Me which was esterified in THF and NEt3 with cyclopropanecarbonyl chloride to give the carboxylate II. At 2000 ppm, II caused complete male sterility of corn and at 0.06%, protected rice against Xanthomonas oryzae.

IT **84995-73-3P**

(preparation and bactericidal activity of)

RN 84995-73-3 HCAPLUS

CN 2-Propenoic acid, 2,3,3-trichloro-, 2-nitro-4-(propylsulfonyl)phenyl ester (9CI) (CA INDEX NAME)



IC C07C147-10; C07C147-12; C07D307-16; C07D307-38; A01N041-10; A01N053-00
CC 25-12 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT **84995-73-3P 84995-74-4P** 84995-76-6P 84995-80-2P
84996-05-4P 84996-06-5P

(preparation and bactericidal activity of)

IT **84995-71-1P 84995-72-2P** 84995-84-6P 84995-87-9P
84995-89-1P 84995-90-4P 84995-91-5P 84995-95-9P 84996-08-7P
84996-09-8P

(preparation and gametocidal, fungicidal, and bactericidal activity of)

L37 ANSWER 30 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:491203 HCAPLUS Full-text

DOCUMENT NUMBER: 97:91203

TITLE: Trichloroalkene derivatives as fungicides.

PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57018646	A	19820130	JP 1980-93272	19800710

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PRIORITY APPLN. INFO.:

JP 1980-93272

A 19800710

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OTHER SOURCE(S): CASREACT 97:91203

ED Entered STN: 12 May 1984

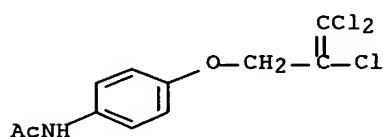
AB Twenty-nine Cl₂C:CCl₂R (I, Z = CH₂, CO, etc.; R = H₂NC₆H₄O, benzothiazolyloxy, substituted acryloyloxy, etc.), effective fungicides against *Piricularia oryzae*, were prepared. Thus, 22.5 g Cl₂C:CClCH₂Br was added to a mixture of 15.1 g 4-AcNHC₆H₄OH and 13.8 g K₂CO₃ in DMF at room temperature and the mixture heated 6 h at 100° to give 4-AcNHC₆H₄OCH₂CCl:CCl₂, which (25 g) was refluxed with 250 mL concentrated HCl in EtOH 5 h to give 20 g I (Z = CH₂, R = 4-H₂NC₆H₄O).

IT 82699-78-3P

(preparation and hydrolysis of)

RN 82699-78-3 HCAPLUS

CN Acetamide, N-[4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl]- (9CI) (CA INDEX NAME)



IC C07C057-52; A01N033-02; A01N033-26; A01N037-02; A01N037-06; A01N037-22; A01N041-12; A01N043-74; A01N047-12; A01N057-10; C07C059-70; C07C069-63; C07C069-65; C07C069-708; C07C087-60; C07C093-14; C07C093-26; C07C103-365; C07C103-56; C07C109-04

CC 21-3 (General Organic Chemistry)
Section cross-reference(s): 5, 28

IT 82699-78-3P

(preparation and hydrolysis of)

L37 ANSWER 31 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:110708 HCAPLUS Full-text

DOCUMENT NUMBER: 92:110708

TITLE: Substituted N-phenyl-N'-fluorobenzoylureas and their use as pesticides

INVENTOR(S): Ehrenfreund, Josef

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 4030	A2	19790919	EP 1979-100599	19790301
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EP 4030	A3	19791017		
EP 4030	B1	19811230		
R: BE, CH, DE, FR, GB, IT, NL				
US 4262020	A	19810414	US 1979-16867	19790302
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CA 1111068	A1	19811020	CA 1979-323067	19790309

ES 478518	A1	19800116	ES 1979-478518	19790312
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ZA 7901134	A	19800430	ZA 1979-1134	19790312
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AT 7901847	A	19810415	AT 1979-1847	19790312
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AT 364674	B	19811110		
IL 56857	A	19830615	IL 1979-56857	19790312
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AU 7945032	A	19790920	AU 1979-45032	19790313
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AU 525517	B2	19821111		
JP 54128544	A	19791005	JP 1979-29310	19790313
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BR 7901531	A	19791016	BR 1979-1531	19790313
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PRIORITY APPLN. INFO.:			CH 1978-2700	19780313
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ED Entered STN: 12 May 1984

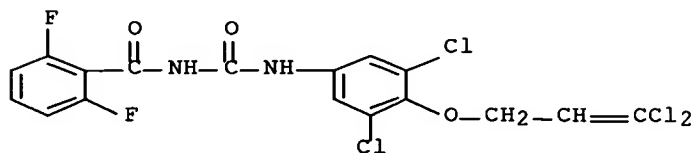
AB Thirty-one title compds. I (R = C2-3 alkenyl, mono- or dichlorinated C2-4 alkenyl, propargyl; R1 and R2 independently = H or Cl; R3 = H or F) were prepared as insecticides (no data). Thus, 3 g 2,6-F2C6H3CONCO in 10 mL Et2O were added dropwise to 3.3 g 3,5,4- Cl2(ClCH:CHCH2O)C6H2NH2 in 30 mL Et2O at room temperature, and the mixture was kept to precipitation I (R = ClCH:CHCH2, R1 = R2 = Cl, R3 = F).

IT 72837-79-7P

(preparation of, as insecticides)

RN 72837-79-7 HCAPLUS

CN Benzamide, N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



IC C07C127-22; A01N009-20

CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT	72837-76-4P	72837-77-5P	72837-78-6P	72837-79-7P	
	72837-80-0P	72837-81-1P	72837-82-2P	72837-83-3P	72837-84-4P
	72837-85-5P	72837-86-6P	72837-87-7P	72837-88-8P	72837-89-9P
	72837-90-2P	72837-91-3P	72837-92-4P	72837-93-5P	72837-94-6P
	72837-95-7P	72837-96-8P	72837-97-9P	72837-98-0P	72837-99-1P
	72838-00-7P	72838-01-8P	72838-02-9P	72838-03-0P	72838-04-1P

(preparation of, as insecticides)

L37 ANSWER 32 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:203730 HCAPLUS Full-text

DOCUMENT NUMBER: 90:203730

TITLE: N-Phenyl-N'-benzoylureas as insecticides

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54027538	A	19790301	JP 1978-92460	19780728
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EP 1203	A1	19790404	EP 1978-100446	19780720
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EP 1203	B1	19800903		
R: BE, CH, DE, FR, GB, NL				
US 4162330	A	19790724	US 1978-927444	19780724
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CA 1099740	A1	19810421	CA 1978-308226	19780726
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IL 55222	A	19830515	IL 1978-55222	19780726
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ES 472128	A1	19790316	ES 1978-472128	19780727
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ZA 7804271	A	19790725	ZA 1978-4271	19780727
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AU 7838404	A	19800131	AU 1978-38404	19780727
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AU 523532	B2	19820805		
AT 7805484	A	19810215	AT 1978-5484	19780727
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AT 364195	B	19810925		
PRIORITY APPLN. INFO.:			CH 1977-9349	A 19770728
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ED Entered STN: 12 May 1984

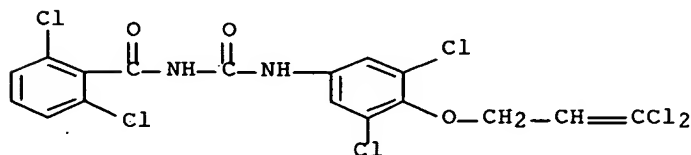
AB N-Phenyl-N'-benzoylureas (I; R = allyl, chloroallyl, chlorovinyl, propargyl; R1 = H, Cl), effective insecticides and acaricides at 0.1 weight%, were prepared by treating anilines II with benzoylisocyanates III. Thus, 3.5 g III (R1 = Cl) was added to 3.3 g II (R = allyl) in Et2O at room temperature to give I (R = allyl, R1 = Cl). Similarly prepared were 13 addnl. I.

IT 70298-37-2P

(preparation of)

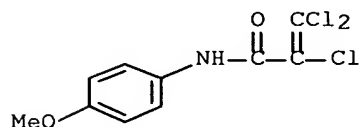
RN 70298-37-2 HCAPLUS

CN Benzamide, 2,6-dichloro-N-[[[3,5-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



IC C07C127-22
 CC 25-21 (Noncondensed Aromatic Compounds)
 Section cross-reference(s): 5
 IT 70298-28-1P . 70298-29-2P 70298-30-5P 70298-31-6P 70298-32-7P
 70298-33-8P 70298-34-9P 70298-35-0P 70298-36-1P
70298-37-2P 70298-38-3P 70298-39-4P
 (preparation of)

L37 ANSWER 33 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1978:424235 HCAPLUS Full-text
 DOCUMENT NUMBER: 89:24235
 TITLE: 1,3-Dipolar addition reactions of
 tetrachlorocyclopropene with diazoalkanes and aryl
 azides
 AUTHOR(S): Dehmlow, Eckehard V.; Naser-Ud-Din
 CORPORATE SOURCE: Inst. Org. Chem., Tech. Univ. Berlin, Berlin, Fed.
 Rep. Ger.
 SOURCE: Journal of Chemical Research, Synopses (
1978), (1), 40
 CODEN: JRPSDC; ISSN: 0308-2342
 DOCUMENT TYPE: Journal
 LANGUAGE: English/German
 OTHER SOURCE(S): CASREACT 89:24235
 ED Entered STN: 12 May 1984
 AB Tetrachlorocyclopropene (I) with RC1:N2 (R = R1 = H, Me, Ph; R = Me, EtO2C,
 R1 = H) gave the bicyclo compds. II as primary products. The stability of II
 depended on R and R1. Thus, II (R = H, Me, EtO2C, R1 = H) were not isolated
 but rearranged to the pyridazines III whereas II (R = R1 = Me, Ph) required
 heating at 95-100° before giving 3,4-dihydro-3,3-dimethyl-4,4,5,6-
 tetrachloropyridazine and Ph2C:CClCCl:CCl2, resp. I with 4-RC6H4N3 (R = H,
 NO2, OMe) gave 4-RC6H4N:CClCCl:CCl2 via the primary adducts IV.
 IT **952-96-5P**
 (preparation of)
 RN 952-96-5 HCAPLUS
 CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX
 NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 24, 23, 25
 IT **952-96-5P** 14161-11-6P 50405-49-7P 66572-23-4P
 66572-24-5P 66572-27-8P 66572-28-9P 66572-29-0P 66572-31-4P
 66799-72-2P
 (preparation of)

L37 ANSWER 34 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1977:405675 HCAPLUS Full-text
 DOCUMENT NUMBER: 87:5675
 TITLE: Urea derivatives and their use as herbicides
 INVENTOR(S): Scherer, Otto; Horlein, Gerhard; Schonowsky,
 Hubert
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

SOURCE: U.S., 43 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4013452	A	19770322	US 1975-597671	19750721
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US 3937726	A	19760210	US 1970-40704	19700526
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PRIORITY APPLN. INFO.:			US 1967-628843	A2 19670406
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ED Entered STN: 12 May 1984

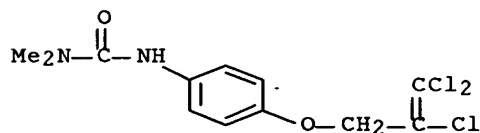
AB [(Haloalkoxy)phenyl]ureas (RO)R₁R₂C₆H₂NHCONR₃R₄ (I; R = haloalkyl, haloalkenyl, or halocycloalkenyl; R₁ = H, Br, Cl, alkyl, CF₃, MeO, or haloalkoxy; R₂ = H or Me; R₃ = H or alkyl; R₄ = alkyl or alkoxy) (143) were prepared by known methods, e.g., by the addition of aryl isocyanates to amines. Extensive data on the herbicidal properties of I were given.

IT 23823-32-7P

(preparation of)

RN 23823-32-7 HCAPLUS

CN Urea, N,N-dimethyl-N'-[4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl]-
 (9CI) (CA INDEX NAME)



IC A01N009-20

INCL 071120000

CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT 403-56-5P 403-61-2P 405-44-7P 713-62-2P 722-33-8P 831-75-4P

1644-21-9P	23823-25-8P	23823-26-9P	23823-27-0P	23823-28-1P
23823-29-2P	23823-30-5P	23823-31-6P	23823-32-7P	
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23823-37-2P	23823-38-3P	23823-39-4P		
23831-23-4P	23831-24-5P	23831-25-6P	23831-26-7P	23831-27-8P
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23831-43-8P	23831-44-9P	23831-45-0P	23831-46-1P	23831-64-3P
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60984-98-7P	60985-00-4P	60985-01-5P	60985-02-6P	60985-03-7P
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60985-09-3P	60985-10-6P	60985-12-8P	60985-17-3P	60985-18-4P
60985-19-5P	60985-20-8P	60985-21-9P	63022-64-0P	63022-65-1P
(preparation of)				
IT	27842-91-7	51736-49-3	52267-55-7	52267-56-8
	55225-92-8	55225-93-9	55225-95-1	55225-96-2
	55225-98-4	55226-04-5	58417-16-6	60984-77-2
	60985-27-5	60985-28-6	60985-29-7	60985-33-3
	60985-34-4	60985-36-6	60985-38-8	60985-39-9
	60985-42-4	60985-43-5	60985-44-6	60985-46-8
	60985-48-0	60985-49-1	60985-50-4	60985-52-6
	60985-55-9	60985-57-1	60985-59-3	60985-61-7
(reaction of, with amines)				
L37	ANSWER 35 OF 49	HCAPLUS	COPYRIGHT 2007	ACS on STN
ACCESSION NUMBER:	1977:72252 HCAPLUS <u>Full-text</u>			
DOCUMENT NUMBER:	86:72252			
TITLE:	Insecticidal N-(polychloroallyl)aminophenols			
INVENTOR(S):	Piccardi, Paolo; Paolucci, Paride; Gozzo, Franco; Longoni, Angelo; Dongiovanni, Vincenzo; Renis, Giovanni			
PATENT ASSIGNEE(S):	Montedison S.p.A., Italy			
SOURCE:	Ger. Offen., 32 pp. CODEN: GWXXBX			

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2618632	A1	19761111	DE 1976-2618632	19760428
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NL 7604458	A	19761104	NL 1976-4458	19760427
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JP 51133250	A	19761118	JP 1976-47958	19760428
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BR 7602661	A	19761109	BR 1976-2661	19760429
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FR 2309520	A1	19761126	FR 1976-12700	19760429
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BE 841362	A1	19761103	BE 1976-166642	19760430
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GB 1496622	A	19771230	GB 1976-17760	19760430
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US 4109011	A	19780822	US 1977-791332	19770427
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PRIORITY APPLN. INFO.:			IT 1975-22949	A 19750502
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			US 1976-680921	A2 19760428
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ED Entered STN: 12 May 1984

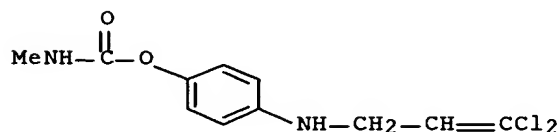
AB RR1(MeNHCO₂)C₆H₂NR₂CH₂CR₃:CCl₂ (I; R = R₁ = H, Me; R₂ = H, Me, Cl₂C:CHCH₂; R₃ = H, Cl, PhS) were prepared and tested for insecticidal activity. Thus, 4,3-Me(H₂N)C₆H₃O₂CNHMe was heated with Cl₃CCH:CH₂ and KI in DMF at 50° to give 2,S--Me(MeNHCO₂)C₆H₃NHCH₂CH:CCl₂ (II). About 25 other I were prepared, effective as insecticides with low toxicity toward warm-blooded animals. Thus, 0.1% II gave 100% kill of Pieris brassicae.

IT **61749-96-0P**

(preparation of)

RN 61749-96-0 HCAPLUS

CN Phenol, 4-[(3,3-dichloro-2-propenyl)amino]-, methylcarbamate (ester)
 (9CI) (CA INDEX NAME)



IC C07C125-06

CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT 61749-93-7P 61749-95-9P **61749-96-0P** 61749-97-1P
 61749-98-2P 61749-99-3P 61750-01-4P **61750-02-5P**
61750-03-6P 61750-04-7P 61750-05-8P **61750-06-9P**
 61750-07-0P 61750-08-1P **61750-09-2P** 61750-10-5P
 61750-11-6P 61750-12-7P 61750-13-8P **61750-14-9P**
61750-15-0P 61750-16-1P

(preparation of)

L37 ANSWER 36 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1976:592415 HCAPLUS Full-text
 DOCUMENT NUMBER: 85:192415
 TITLE: Urea derivatives and their use as herbicides
 INVENTOR(S): Scherer, Otto; Hoerlein, Gerhard; Schoenowsky, Hubert
 PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
 SOURCE: U.S., 39 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3937726	A	19760210	US 1970-40704	19700526
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DE 1568515	A	19700305	DE 1966-F48991	19660422
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DE 1542874	A	19700917	DE 1966-F48990	19660422
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DE 1542889	A	19710121	DE 1966-F50877	19661208
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DE 1542889	B2	19790315		
DE 1568641	A	19700430	DE 1966-F50938	19661214
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NL 6703244	A	19671023	NL 1967-3244	19670228
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JP 50003308	B	19750203	JP 1967-12875	19670302
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DK 116699	B	19700202	DK 1967-1746	19670330
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IL 27751	A	19710526	IL 1967-27751	19670407
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ES 339484	A1	19680716	ES 1967-339484	19670419
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GB 1173208	A	19691203	GB 1967-1173208	19670419
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CH 486837	A	19700315	CH 1967-486837	19670419
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SE 325265	B	19700629	SE 1967-5611	19670421
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BE 697427	A	19671024	BE 1967-697427	19670424
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ES 349712	A1	19691001	ES 1968-349712	19680124
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ES 349714	A1	19691001	ES 1968-349714	19680124
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ES 349716	A1	19691001	ES 1968-349716	19680124
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DE 1768002	A	19720316	DE 1967-1768002	19680320
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IL 31604	A	19730629	IL 1969-31604	19690212
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NL 6902916	A	19690923	NL 1969-2916	19690225
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CH 510388	A	19710731	CH 1969-510388	19690313
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FR 2004063	A5	19691121	FR 1969-7319	19690314
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GB 1249397	A	19711013	GB 1969-1249397	19690314
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CS 151504	B2	19731019	CS 1969-1872	19690314
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RO 55818	A2	19740201	RO 1969-59375	19690314
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AT 291278	B	19710712	AT 1969-2653	19690318
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CH 509752	A	19710715	CH 1969-509752	19690318
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BE 730176	A	19690922	BE 1969-730176	19690320
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FR 2004337	A5	19691121	FR 1969-8115	19690320
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GB 1247102	A	19710922	GB 1969-1247102	19690320
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SE 342443	B	19720207	SE 1969-3886	19690320
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ES 386044	A1	19730316	ES 1970-386044	19701130
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US 4013452	A	19770322	US 1975-597671	19750721
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PRIORITY APPLN. INFO.:			DE 1966-F48990	A 19660422
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			US 1970-40704	A3 19700526
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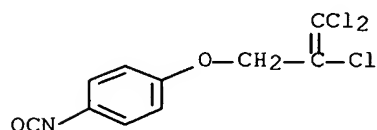
ED Entered STN: 12 May 1984

AB One hundred forty-eight phenylureas (I; R = haloalkyl, haloalkenyl, halocycloalkyl, halocycloalkenyl; R1 = H, Br, Cl, Me, Et, Me2CH, MeO, CF3; R2 = H, Cl, Me; R3 = H, Cl-4 alkyl; R4 = MeO, Cl-4 alkyl; n = 1, 2), which showed effective herbicidal activity, were prepared by treating aliphatic amines or hydroxylamines with aryl isocyanates or arylcarbamoyl chlorides, followed by alkylation (if needed), or by treating arylamines with alkyl isocyanates or dialkylcarbamoyl chlorides. Thus, 3-ClCHFCF2OC6H4NCO with MeNH2 gave I (R = ClCHFCF2, R1 = R2 = R3 = H, R4 = Me, n = 1), which, at 1.2 kg/ha, gave 100% kill of wild mustard and 30% of wild oats with no damage to cotton, and 100% kill of a 5-weed mix with no damage to maize or cotton. The preparation of >50 starting materials is also described.

IT 60985-34-4

(addition reaction of, with dimethylamine)

RN 60985-34-4 HCAPLUS
 CN Benzene, 1-isocyanato-4-[(2,3,3-trichloro-2-propenyl)oxy]- (9CI) (CA
 INDEX NAME)



IC C07C127-19

INCL 260553000A

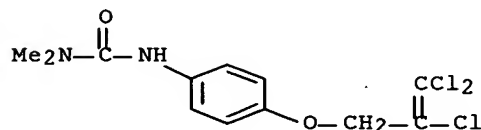
CC 25-21 (Noncondensed Aromatic Compounds)

Section cross-reference(s): 5

IT 27842-91-7 51736-49-3 52267-56-8 55226-06-7 **60985-34-4**
 60985-36-6 60985-38-8 60985-39-9 60985-43-5 60985-52-6
 60985-57-1 60985-59-3 60985-61-7 60985-62-8
 (addition reaction of, with dimethylamine)
 IT 23823-25-8P 23823-27-0P 23823-30-5P 23823-35-0P 23823-36-1P
23823-38-3P 23823-39-4P 23831-72-3P 23831-73-4P
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 27954-49-0P 27954-50-3P 28120-44-7P 28309-11-7P
 (preparation and herbicidal activity of)
 IT 403-72-5P 591-27-5P 3383-72-0P 23823-26-9P 23823-28-1P
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 (preparation of)
 IT 55225-96-2 60985-29-7 60985-31-1 **60985-33-3**
 (reaction of, with dimethylamine)

L37 ANSWER 37 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1974:104747 HCAPLUS Full-text

DOCUMENT NUMBER: 80:104747
 TITLE: Halogenated (alkoxyphenyl)ureas, preparation and herbicidal activity
 AUTHOR(S): Hoerlein, Gerhard; Schoenowsky, Hubert; Studeneer, Adolf; Langelueddeke, Peter
 CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M., Fed. Rep. Ger.
 SOURCE: Zeitschrift fuer Naturforschung, Teil C: Biochemie, Biophysik, Biologie, Virologie (1973), 28(11-12), 653-61
 CODEN: ZNFCAP; ISSN: 0341-0471
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 ED Entered STN: 12 May 1984
 AB Fifty-six halogenated (alkoxyphenyl)ureas R(R1O), C₆H₃NHCONMe₂ (R = e.g. H, 2-, 3- or 4-Me, 3- or 4-Cl or Br, 3-CF₃ or 3-Et, R1 = e.g. 3- or 4-ClCH:CCl, 3- or 4-Cl₂CHCF₂, or 4-CF₂Cl), prepared by known methods, were screened for their herbicidal activity. Thus, very good selective herbicidal activity in cotton cultures was shown by N-[3-(1,1,2,2-tetrafluoroethoxy)phenyl]-N',N'-dimethylurea [27954-37-6] and N-[3-chloro-4-(difluoromethoxy)phenyl]-N',N'-dimethylurea [39139-11-2], at 0.5-2 kg/ha.
 IT **23823-32-7P**
 (preparation of)
 RN 23823-32-7 HCAPLUS
 CN Urea, N,N-dimethyl-N'-[4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl]-(9CI) (CA INDEX NAME)



CC 5-3 (Agrochemicals)
 IT 403-56-5P 403-72-5P 23823-27-0P 23823-28-1P **23823-32-7P**
23823-33-8P 23823-34-9P 23823-35-0P **23823-37-2P**
23823-38-3P **23823-39-4P** 23831-23-4P 23831-24-5P
 23831-25-6P 23831-26-7P 23831-27-8P 23831-29-0P 23831-30-3P
 23831-31-4P 23831-32-5P 23831-35-8P 23831-37-0P 23831-39-2P
 23831-40-5P 23831-42-7P 23831-44-9P 23831-46-1P
23831-65-4P 23831-68-7P 23831-69-8P 23831-70-1P
 23831-72-3P 23831-75-6P 23831-76-7P 23831-79-0P 23831-83-6P
 23831-86-9P 23831-87-0P 23831-88-1P 23831-89-2P 23831-90-5P
 23831-92-7P 23831-96-1P 23831-97-2P 23832-00-0P 23832-02-2P
 23832-03-3P 23832-05-5P 23832-07-7P 23832-08-8P 23832-09-9P
 23832-10-2P 23832-11-3P 23832-13-5P 23845-81-0P 27842-84-8P
 27842-87-1P 27842-88-2P 27842-90-6P 27842-92-8P 27842-94-0P
 27842-96-2P 27869-28-9P 27954-32-1P 27954-36-5P 27954-39-8P
 27954-48-9P 27954-52-5P 27954-53-6P 27954-55-8P 27954-56-9P
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 35037-70-8P 35078-32-1P 35078-34-3P 39065-87-7P 39065-90-2P
 39065-97-9P 39066-00-7P 39138-93-7P 39139-02-1P 39139-04-3P
 39139-09-8P 39139-10-1P 39139-12-3P 39139-16-7P 39139-18-9P
 39139-23-6P 39139-24-7P 39139-25-8P 39139-26-9P 39139-28-1P
 39139-32-7P 39211-60-4P 51707-72-3P 51707-73-4P 51707-74-5P
 51707-75-6P 51707-76-7P 51707-77-8P 51707-78-9P 51707-79-0P

51707-80-3P 51707-81-4P 51707-83-6P 51707-84-7P 51707-85-8P
 51707-86-9P 51707-87-0P 51707-88-1P 51707-89-2P 51707-90-5P
 51707-91-6P 51708-02-2P 51708-03-3P 51708-04-4P 51708-05-5P
 51708-06-6P 51708-07-7P 51708-08-8P 51708-12-4P 51708-13-5P
 51708-14-6P

(preparation of)

L37 ANSWER 38 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:461005 HCAPLUS Full-text

DOCUMENT NUMBER: 71:61005

TITLE: Herbicidal N-phenylureas

PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: Fr., 30 pp.

CODEN: FRXXAK

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1520220		19680405	FR 1967-103884	19670424
			<--	
DE 1542889			DE	
DE 1568515			DE	
DE 1568641			DE	
GB 1173208			GB	
PRIORITY APPLN. INFO.:			DE	19660422
			<--	
			DE	19661214
			<--	

ED Entered STN: 12 May 1984

AB Title compds. (I) were prepared by treating either the corresponding phenyl isocyanates (II) with the corresponding amines NHR₅R₆, or the corresponding anilines (III) with either Me isocyanate (IV) when R₅ = H and R₆ = Me, or dimethylcarbamic acid chloride (V) when R₅ = R₆ = Me. Thus, 200 g. gaseous NHMe₂ was added to a stirred solution of 1000 g. II (R₂ = CCl₂:CHCH₂O; R₁ = R₃ = R₄ = H) in 2000 cc. absolute C₆H₆, to give after cooling a crystalline precipitate which was washed with some C₆H₆, dried, and recrystd. from petroleum ether, yielding 1100 g. I (R₂ = CCl₂:CHCH₂O; R₁ = R₃ = R₄ = H; R₅ = R₆ = Me), m. 103-4°. Similarly prepared I are tabulated in the 1st table. IV (11 g.) was added to a stirred solution of 44 g. III (R₂ = CCl₂:CHCH₂O; R₁ = R₃ = R₄ = H) in 100 cc. absolute C₆H₆. After keeping the mixture 1 hr. at 40°, the precipitate was washed with some C₆H₆, dried, and recrystd. from dioxane to give 34 g. I (R₂ = CCl₂:CHCH₂O; R₁ = R₃ = R₄ = R₅ = H; R₆ = Me), m. 154-5°. Similarly prepared I (R₁ = R₅ = H; R₆ = Me) are tabulated in the 2nd table. V (17 g.) was added dropwise to a stirred solution of 30 g. III (R₂ = CHCl:CClO; R₁ = R₃ = R₄ = H) in 50 cc. absolute C₆H₆ containing 16 g. NEt₃. After keeping the mixture 3 hrs. at 50°, the precipitated NEt₃.HCl was removed and C₆H₆ distilled. The partially crystallized residue was crushed on a clay plate to eliminate the fatty products to give 18 g. I (R₂ = CHCl:CClO; R₁ = R₃ = R₄ = H; R₅ = R₆ = Me) m. 153-5°. Similarly prepared I (R₅ = R₆ = Me; R₁ = H) (R₂, R₃, R₄, and m.p. given) were: CHCl₂CF₂O, H, Me, 95-6°; and Me, CHCl₂CF₂O, H, 117-19°. I are useful as selective herbicides and show higher activities than the known urea-based compds. such as N-[p-(p-chlorophenoxy)phenyl]-N',N'-dimethylurea (Chloroxuron).

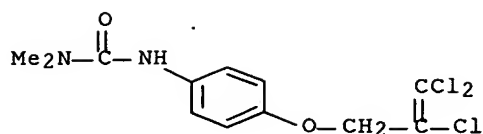
IT 23823-32-7P

(preparation of)

RN 23823-32-7 HCAPLUS

CN Urea, N,N-dimethyl-N'-[4-[(2,3,3-trichloro-2-propenyl)oxy]phenyl]-

(9CI) (CA INDEX NAME)



IC C07C; A01N
 CC 25 (Noncondensed Aromatic Compounds)
 IT 23823-25-8P 23823-26-9P 23823-27-0P 23823-28-1P 23823-29-2P
 23823-30-5P 23823-31-6P **23823-32-7P 23823-33-8P**
 23823-34-9P 23823-35-0P 23823-36-1P **23823-37-2P**
23823-38-3P 23823-39-4P 23831-23-4P 23831-24-5P
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 23831-86-9P 23831-87-0P 23831-88-1P 23831-89-2P 23831-90-5P
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 23832-01-1P 23832-02-2P 23832-03-3P 23832-04-4P 23832-05-5P
 23832-06-6P 23832-07-7P 23832-08-8P 23832-09-9P 23832-10-2P
 23832-11-3P 23832-12-4P 23832-13-5P 23845-81-0P 23845-82-1P
 25033-36-7P
 (preparation of)

L37 ANSWER 39 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:38868 HCAPLUS Full-text

DOCUMENT NUMBER: 66:38868

TITLE: Reactive dyes

INVENTOR(S): Schweizer, August

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: Patentschrift (Switz.), 4 pp. Addn. to Swiss
369532

CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 410238		19661031	CH 1959-1722865	19590410

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ED Entered STN: 12 May 1984

AB Addition to Swiss 369,532 (CA 60, 5671g). Azo types containing a Cl₂C:CClCONH
 (Q) group were prepared (diazo component coupling component, and shade given):
 2-H₂NC₆H₄SO₃H (I), 2,5,7-Q- (HO)Cl₁₀H₅SO₃Na, orange; 4,2-Q(H₂N)C₆H₃SO₃H (III),
 1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-pyrazolone, greenish yellow; III,

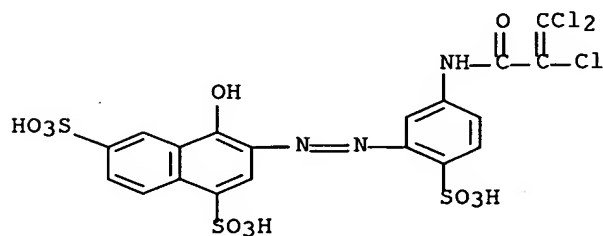
1,8,3,6,2-H₂N(HO) (HO₃S)₂C₁₀H₃N:NC₆H₄Q-4, green-gray; III, 1,4,7-HOC₁₀H₅(SO₃H)₂, scarlet; 1,8,3,6-Q(HO)C₁₀H₄(SO₃H)₂, bluish red.

IT **14975-08-7P**

(preparation of)

RN 14975-08-7 HCAPLUS

CN 1,6-Naphthalenedisulfonic acid, 4-hydroxy-3-[[2-sulfo-5-(2,3,3-trichloroacrylamido)phenyl]azo]- (8CI) (CA INDEX NAME)



IC C09B

CC 40 (Dyes, Fluorescent Brightening Agents, and Photosensitizers)

IT 14228-50-3P **14975-08-7P 15072-48-7P**

15141-51-2P 29721-35-5P

(preparation of)

L37 ANSWER 40 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:38867 HCAPLUS Full-text

DOCUMENT NUMBER: 66:38867

TITLE: Reactive dyes

INVENTOR(S): Schweizer, August

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: Patentschrift (Switz.), 7 pp. Addn. to Swiss. 380264

CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 410230		19661031	CH 1959-71846	19590410

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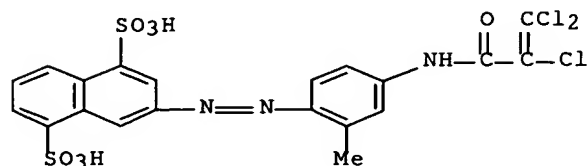
ED Entered STN: 12 May 1984

AB Addition to Swiss 380,264 (See Brit. 945,940, CA 61, 13460c). H₂O-soluble, reactive dyes are prepared by treating an azo, anthraquinone, or phthalocyanine (Pc) dye containing an NH₂ group with CCl₂:CClCOCl (I). Thus, a solution of 42.3 parts 2,5,7,6-H₂N(HO) (HO₃S)₂C₁₀H₄N:NC₆H₄SO₃H-2 in 600 parts H₂O was adjusted to pH 8.0 with aqueous NaOH, cooled to 10°, 20 parts I added with stirring during 3 hrs., the mixture stirred for 2-3 hrs. at 10°, keeping the pH at 6.0-8.0 with dilute aqueous Na₂CO₃, NaCl added, the precipitate filtered and vacuum dried at 60° to give an orange-red powder which dyed mercerized cotton orange. Similarly, other reactive dyes were prepared from I (amino dye and shade given): 4,8,2-(NaO₃S)₂C₁₀H₅N:NC₆H₃(NH₂)Me-4,2, reddish yellow; II, blue, CuPc(SO₃Na)_x(SO₂NHC₆H₄NH₂)_y, turquoise blue.

IT **14228-47-8P**

(preparation of)

RN 14228-47-8 HCAPLUS
 CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]- (7CI, 8CI) (CA INDEX NAME)



IC C09B
 CC 40 (Dyes, Fluorescent Brightening Agents, and Photosensitizers)
 IT 147-14-8DP, Copper, [phthalocyaninato(2-)]-, [[p-(2,3,3-trichloroacrylamido)phenyl]sulfamoyl] containing derivs. 14228-46-7P
14228-47-8P 14228-48-9P
 (preparation of)

L37 ANSWER 41 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:28617 HCAPLUS Full-text

DOCUMENT NUMBER: 66:28617

TITLE: A new synthesis of 3-chloroflavones

AUTHOR(S): Newman, Melvin S.; Ferrari, John L.; Garg, C. P.

CORPORATE SOURCE: Ohio State Univ., Columbus, OH, USA

SOURCE: Journal of Heterocyclic Chemistry (1964), 1(2), 76-8

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

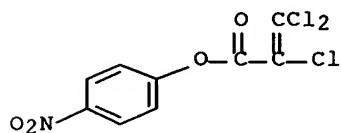
AB The synthesis of a number of 3-chloroflavones (I) by a new method, involving reaction of arylmagnesium bromides with 3,4-dichlorocoumarins is described. The synthesis of 2-chloro-7-methyl-11H-benzofuro[3,2-b]benzopyran-11-one (II) is also described.

IT **2224-95-5P**

(preparation of)

RN 2224-95-5 HCAPLUS

CN Acrylic acid, trichloro-, p-nitrophenyl ester (7CI, 8CI) (CA INDEX NAME)



CC 27 (Heterocyclic Compounds (One Hetero Atom))

IT 92-45-5P **2224-95-5P** 4198-00-9P 13178-89-7P 13178-97-7P

13178-98-8P 13178-99-9P 13179-00-5P 13179-01-6P 13179-02-7P

13179-04-9P 13179-05-0P 13179-06-1P 13179-07-2P 13179-09-4P

13379-34-5P

(preparation of)

L37 ANSWER 42 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1965:43741 HCAPLUS Full-text
 DOCUMENT NUMBER: 62:43741
 ORIGINAL REFERENCE NO.: 62:7698h,7699a-e
 TITLE: Benzamides
 PATENT ASSIGNEE(S): Egyesult Gyogyszer es Tapszergyar
 SOURCE: 18 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

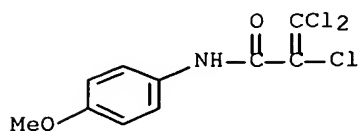
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6403028		19640922	NL 1964-3028	19640320
			<--	
PRIORITY APPLN. INFO.:			HU	19630321
			<--	

ED Entered STN: 22 Apr 2001

AB Benzamides (I), prepared from II, were useful as hypnotic and anticonvulsive agents with low toxicity; some were tranquilizers. To a solution of 7 g. 3,5-dimethoxy-4-ethoxybenzoyl chloride in 40 ml. dry CHCl₃ was added with stirring under cooling in ice 6 ml. morpholine, and the mixture refluxed 1 hr. and worked up to yield 5.8 g. N-(3,5-dimethoxy-4-ethoxybenzoyl)morpholine (III), m. 88-90° (acetone-ligroine). To a boiling mixture of 8.55 g. N-(3,5-dimethoxy-4-hydroxybenzoyl)morpholine, 5.6 g. dry K₂CO₃, and 45 ml. butanone was added with stirring a solution of 5.1 ml. Et₂SO₄ in 10 ml. BuOH, and the mixture refluxed 15 hrs. to yield 5.7 g. III. A mixture of 20 g. 3,5-dimethoxy-4-allyloxybenzoic acid, 20 ml. C₆H₆, and 20 ml. SOCl₂ was refluxed to yield 18.15 g. 3,5-dimethoxy-4-allyloxybenzoyl chloride (IV), m. 60-2° (petr. ether). A solution of 5.2 g. IV in 35 ml. dry CHCl₃ was treated with NH₃ to yield 4.7 g. 3,5-dimethoxy-4-allyloxybenzamide, m. 162-4° (50% MeOH). Similarly were prepared: 3,5-dimethoxy-4-allyloxybenzoic acid methylamide, m. 122-4° (EtOAc-ligroine); N-(3,5-dimethoxy-4-allyloxybenzoyl)-1,2,3,4-tetrahydroquinoline, m. 83-4° (EtOAc-ligroine); N-(3,5-dimethoxy-4-allyloxybenzoyl)glycine diethylamide, m. 109-11° (EtOAc-ligroine); and N-(3,5-dimethoxy-4-allyloxybenzoyl)-N'-butylurea, m. 83-5° (EtOAc-ligroine). To a mixture of 53 g. 3,5-dimethoxy-4-hydroxybenzoic acid Me ester and 34 ml. BuBr was added a solution of 6.95 g. Na in 300 ml. BuOH, the mixture refluxed 15 hrs. with stirring, and the crude product in 460 ml. MeOH refluxed 1.5 hrs. with 29 ml. 43.8% KOH to yield 45.85 g. 3,5-dimethoxy-4-butoxybenzoic acid (V), m. 107-9° (30% MeOH). A mixture of 10 g. V, 10 ml. C₆H₆, and 10 ml. SOCl₂ was refluxed, excess SOCl₂ evaporated, and the residue in 30 ml. C₆H₆ treated with 150 ml. concentrated NH₄OH to yield 9.33 g. V amide, m. 143-5° (EtOAc-ligroine). Similarly were prepared: 3,5-dimethoxy-4-isobutoxybenzoic acid, m. 123-5° (30% MeOH) [amide m. 156-8° (EtOAc-ligroine)]; diethylamide was an oil; N-(3,5-dimethoxy-4-isobutoxybenzoyl)morpholine, m. 76-8° (acetone-ligroine) (2-methylmorpholine analog was an oil); 3,5-dimethoxy-4-sec-butoxybenzoic acid, m. 127-8° [N-(3,5-dimethoxy-4-sec-butoxybenzoyl)morpholine was an oil]; 3,5-dimethoxy-4-(cyclohex-2-en-1-yl)oxybenzoic acid, m. 163-5° (30% MeOH) [amide m. 161-3° (EtOH)]; 3,5-dimethoxy-4-(2-methoxyethoxy)benzoic acid, m. 109-11° (EtOH-H₂O) [amide m. 125-6° (25% EtOH)]; 3-methoxy-4-allyloxy-5-chlorobenzoic acid, m. 125-6° (EtOAc-ligroine) [amide m. 130-1° (EtOAc-ligroine)]; 3-methoxy-4-butoxy-5-chlorobenzoic acid, m. 109-10° (C₆H₆) [amide m. 122-4° (EtOAc-ligroine)]; 3-methoxy-4-allyloxy-5-bromobenzoic acid, m. 132-4° (EtOAc-ligroine) [amide m. 133-5°]; 3-methoxy-4-butoxy-5-bromobenzoic acid, m. 119-21° (EtOAc-ligroine) [amide m. 130-2° (EtOAc-ligroine)]; 3,5-dibromo-4-allyloxybenzoic acid, m. 176-8° (EtOAc) [amide m.

140-20 (EtOH)]; 3,5-dibromo-4-butoxybenzoic acid, m. 142-3° (EtOAc-ligroine) [amide m. 138-40° (EtOAc-ligroine)]; and N-(3,5-dimethoxy-4-allyloxybenzoyl)-2-methoxyethylamine, m. 96-8° (EtOAc-ligroine).

IT **952-96-5P**, p-Acrylanisidide, 2,3,3-trichloro-
(preparation of)
RN 952-96-5 HCAPLUS
CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IC C07C; C07D
CC 35 (Noncondensed Aromatic Compounds)
IT 153-71-9P, Benzamide, 4-isobutoxy-3,5-dimethoxy- 153-73-1P,
Benzamide, 4-butoxy-3,5-dimethoxy- 304-22-3P, Benzamide,
4-(allyloxy)-3,5-dimethoxy- 948-10-7P, Benzoic acid,
4-(allyloxy)-3,5-dibromo- 951-45-1P, Benzoic acid,
4-(allyloxy)-3-bromo-5-methoxy- 951-46-2P, Benzamide,
4-(allyloxy)-3-chloro-5-methoxy- 951-50-8P, Benzamide,
3,5-dibromo-4-butoxy- **952-96-5P**, p-Acrylanisidide,
2,3,3-trichloro- 954-85-8P, Benzoyl chloride, 4-(allyloxy)-3,5-
dimethoxy- 955-33-9P, Benzamide, 3-bromo-4-butoxy-5-methoxy-
955-34-0P, Benzoic acid, 3-bromo-4-butoxy-5-methoxy- 955-35-1P,
Benzamide, 4-butoxy-3-chloro-5-methoxy- 955-36-2P, Benzoic acid,
4-butoxy-3-chloro-5-methoxy- 958-20-3P, Benzoic acid,
4-sec-butoxy-3,5-dimethoxy- 958-25-8P, Benzoic acid,
4-isobutoxy-3,5-dimethoxy- 958-26-9P, Benzamide,
3,5-dimethoxy-4-(2-methoxyethoxy)- 958-27-0P, Benzoic acid,
3,5-dimethoxy-4-(2-methoxyethoxy)- 958-28-1P, Benzamide,
4-(allyloxy)-3,5-dimethoxy-N-methyl- 964-31-8P, Benzamide,
4-(2-cyclohexen-1-yloxy)-3,5-dimethoxy- 967-11-3P, Morpholine,
4-(4-ethoxy-3,5-dimethoxybenzoyl)- 973-47-7P, Morpholine,
4-(4-isobutoxy-3,5-dimethoxybenzoyl)- 978-14-3P, Benzamide,
4-(allyloxy)-N-[(diethylcarbamoyl)methyl]-3,5-dimethoxy- 979-82-8P,
Quinoline, 1-[4-(allyloxy)-3,5-dimethoxybenzoyl]-1,2,3,4-tetrahydro-
1016-32-6P, Benzamide, 4-(allyloxy)-3,5-dibromo- 1019-23-4P,
Benzamide, 4-(allyloxy)-3-bromo-5-methoxy- 1019-24-5P, Benzoic acid,
4-(allyloxy)-3-chloro-5-methoxy- 1032-70-8P, Benzoic acid,
4-(2-cyclohexen-1-yloxy)-3,5-dimethoxy- 1046-97-5P, Urea,
1-[4-(allyloxy)-3,5-dimethoxybenzoyl]-3-butyl- 1147-84-8P, Benzoic
acid, 4-butoxy-3,5-dimethoxy- 6648-89-1P, Benzoic acid,
3,5-dibromo-4-butoxy-
(preparation of)

L37 ANSWER 43 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1965:43740 HCAPLUS Full-text

DOCUMENT NUMBER: 62:43740

ORIGINAL REFERENCE NO.: 62:7698g-h

TITLE: Substituted trichloroacrylic acid amides

INVENTOR(S): Ettel, Viktor; Myska, Jaromir; Stanek, Jan

SOURCE: 3 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 111208		19640615	CS	19630111
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PRIORITY APPLN. INFO.:			CS	19630111
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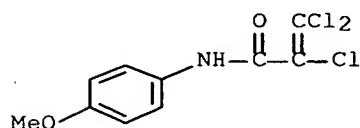
ED Entered STN: 22 Apr 2001

AB Adding dropwise with stirring 0.062 mole a substituted aniline derivative in 120 ml. dry C₆H₆ to 0.031 mole CCl₂:CClCOCl in 60 ml. C₆H₆ and heating the mixture 30 min. on a boiling water bath gives the following title compds. showing fungicidal properties [amide, % yield, m.p., and effective dose (E.D.50) in mg./l., determined against Neurospora sitophila given]: 2-chloroanilide, --, 70°, 9; 3-chloroanilide, 80.5, 95°, 142; 2,4-dichloroanilide, --, 118.5°, 186; 3,4-dichloroanilide, --, 129.5°, 626; 4-methylanilide, --, 105.5°, 2000; 2-nitroanilide, --, 115.5°, 22; 3-nitroanilide, --, 122°, 81; 4-nitroanilide, --, 188°, 19; 2-nitro-4-methylanilide, 68.5, 123°, 212; 4-methoxyanilide, --, 131°, --. In a 0.001% aqueous solution the above compds. were devoid of herbicidal effects in Sinapis alba.

IT **952-96-5P**, p-Acrylanisidide, 2,3,3-trichloro-
(preparation of)

RN 952-96-5 HCAPLUS

CN 2-Propenamide, 2,3,3-trichloro-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IC C07C

CC 35 (Noncondensed Aromatic Compounds)

IT 949-35-9P, Acrylanilide, 2,2',3,3-tetrachloro- 949-53-1P,
Acrylanilide, 2,3,3,3'-tetrachloro- 949-66-6P, p-Acrylotoluidide,
2,3,3-trichloro- **952-96-5P**, p-Acrylanisidide,
2,3,3-trichloro- 955-51-1P, Acrylanilide, 2,3,3-trichloro-2'-nitro-
956-51-4P, Acrylanilide, 2,3,3-trichloro-3'-nitro- **956-57-0P**
, Acrylanilide, 2,3,3-trichloro-4'-nitro- 958-86-1P,
p-Acrylotoluidide, 2,3,3-trichloro-2'-nitro- 1083-38-1P,
Acrylanilide, 2,2',3,3,4'-pentachloro- 1212-10-8P, Acrylanilide,
2,3,3,3',4'-pentachloro-
(preparation of)

L37 ANSWER 44 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1965:36647 HCAPLUS Full-text

DOCUMENT NUMBER: 62:36647

ORIGINAL REFERENCE NO.: 62:6437c-e

TITLE: Esters of trichloroacrylic acid

INVENTOR(S): Stanek, Jan; Myska, Jaromir; Ettel, Viktor

SOURCE: 3 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 111209		19640615	CS	19630111
PRIORITY APPLN. INFO.:			CS	19630111

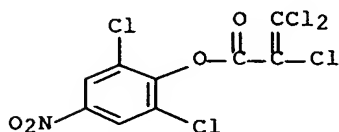
ED Entered STN: 22 Apr 2001

AB Title compds., for use as fungicides, are obtained by treating a solution of 0.01 mole phenol derivative in 80 ml. C₆H₆ and 0.79 g. pyridine dropwise with stirring and cooling with 0.01 mole CCl₂:CClCOCl in 30 ml. C₆H₆ and stirring the mixture 2 hrs. [the substituted aryl ester, % yield, b.p., and effective dose (E.D.₅₀) given]: 2,6-dichlorophenyl, 71.5, 70.5°, 25; 2,4,5-trichlorophenyl, --, 103°, 45; 2,4,5,6-tetrachlorophenyl, 61, 45°, 43; pentachlorophenyl, --, 97°, 29; 2-nitrophenyl, --, 77°, 1.3; 4-nitrophenyl, --, 109.5°, 2; 2,4-dinitrophenyl, --, 110°, 0.6; 2,4-dinitro-6-methylphenyl, --, 61°, 0.4; 2,4-dinitro-6-sec-butylphenyl, --, -- (oil at 20°), --; 2,4-dichloro-6-nitrophenyl, --, 70°, 1.2; 2,6-dichloro-4-nitrophenyl, --, 70.5°, 0.6; 2,4,5-trichloro-6-nitrophenyl, 70, 102°, 2.5.

IT 2224-91-1P, Phenol, 2,6-dichloro-4-nitro-, trichloroacrylate (preparation of)

RN 2224-91-1 HCAPLUS

CN Acrylic acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester (7CI, 8CI) (CA INDEX NAME)



IC A01N; C07C

CC 35 (Noncondensed Aromatic Compounds)

IT 2224-90-0P, Phenol, 3,4,6-trichloro-2-nitro-, trichloroacrylate
 2224-90-0P, Acrylic acid, trichloro-, 3,4,6-trichloro-2-nitrophenyl ester 2224-91-1P, Phenol, 2,6-dichloro-4-nitro-, trichloroacrylate 2224-91-1P, Acrylic acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester 2224-92-2P, Acrylic acid, trichloro-, 2,4-dichloro-6-nitrophenyl ester 2224-92-2P, Phenol, 2,4-dichloro-6-nitro-, trichloroacrylate 2224-93-3P, Acrylic acid, trichloro-, 4,6-dinitro-o-tolyl ester 2224-93-3P, o-Cresol, 4,6-dinitro-, trichloroacrylate 2224-94-4P, Phenol, 2,4-dinitro-, trichloroacrylate 2224-94-4P, Acrylic acid, trichloro-, 2,4-dinitrophenyl ester 2224-95-5P, Acrylic acid, trichloro-, p-nitrophenyl ester 2224-96-6P, Acrylic acid, trichloro-, o-nitrophenyl ester 2224-97-7P, Acrylic acid, trichloro-, 2,3,4,6-tetrachlorophenyl ester 2224-97-7P, Phenol, 2,3,4,6-tetrachloro-, trichloroacrylate 2224-98-8P, Phenol, 2,4,5-trichloro-, trichloroacrylate 2224-98-8P, Acrylic acid, trichloro-, 2,4,5-trichlorophenyl ester 2224-99-9P, Phenol, 2,6-dichloro-, trichloroacrylate 2224-99-9P, Acrylic acid, trichloro-, 2,6-dichlorophenyl ester 3881-57-0P, Phenol, pentachloro-, trichloroacrylate 3881-57-0P, Acrylic acid, trichloro-, pentachlorophenyl ester (preparation of)

L37 ANSWER 45 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:477078 HCAPLUS Full-text

DOCUMENT NUMBER: 61:77078

ORIGINAL REFERENCE NO.: 61:13460b-f

TITLE: Dyes containing di- and trichloroacrylamido groups

INVENTOR(S): Schweizer, August; Siegrist, Hans; Benz, Jakob

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: 19 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 945940		19640108	GB 1960-9318	19600316
CH 380264			CH	
PRIORITY APPLN. INFO.:			CH	19590320

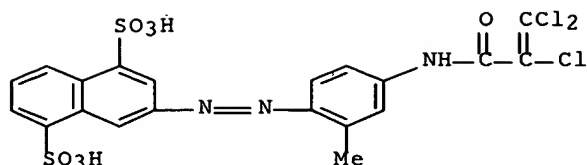
ED Entered STN: 22 Apr 2001

AB Azo, anthraquinone, and Cu phthalocyanine dyes containing Cl₂C:CHCONH and Cl₂C:CClCONH groups were prepared 2,5,7-H₂N(HO)C₁₀H₅SO₃H 47.8 in H₂O 800 adjusted with 30% aqueous NaOH to pH 7, treated dropwise during 1.5 hrs. at 3° with Cl₂C:CHCOCl (I) 45 in dry Me₂CO 100 while maintaining the reaction mixture at pH 6-7 by the dropwise addition of 20% aqueous NaOH, and the product coupled with diazotized o-H₂NC₆H₄SO₃H 34.6 parts yielded an orange powder which dyes cotton sateen fabric orange shades. 2,4-(H₂N)C₆H₃SO₃H (II) 94 in H₂O 1500 condensed similarly with I 115 parts gave the 4Cl₂C:CHCONH analog (III) of II. III 31.1 diazotized and coupled with 1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-pyrazolone 32.3 parts gave a reddish yellow dye. Di-Na 1-amino-4-(4'-aminoanilino)anthraquinone-2,3-disulfonate 10.7 condensed with I 4 parts yielded blue dyes. u phthalocyanine 57.6 and ClSO₃H 270 heated 3 hrs. at 140-5°, the product in ice 300 and H₂O 300 adjusted with dilute aqueous NaOH to pH 5, treated with p-AcNHC₆H₄NH₂ 15, heated to 45-50° while maintaining with dilute aqueous NaOH at pH 5.0-5.5, basified weakly after 3 hrs. with NaOH, heated for 1 hr. at 80°, treated with 30% HCl 200, and filtered, and the product condensed with I 35 parts yielded a dark blue powder, turquoise-blue in H₂O and on cotton. 2,4,8-[2,4-Me(H₂N)C₆H₃N:N]C₁₀H₅(SO₃H)₂ 42.1 dissolved in H₂O 1200 with 30% aqueous NaOH and treated with NaOAc.3H₂O 54.5 and then at 0-5° with Cl₂C:CClCOCl 38 in PhCl 50 parts gave a reddish yellow dye. p O₂NC₆H₄NH₂ → 1,8,3,6-H₂N(HO)C₁₀H₄(SO₃H)₂ (IV) reduced with Na₂S, and the product 43.8 in Me₂CO 100 condensed with I 29 and then coupled with diazotized III 31.1 parts gave a black powder which dyes cellulosic fibers green-gray to black shades. III 31.1 diazotized and coupled with 1,4,7-HOC₁₀-H₅(SO₃H)₂ 30.4 parts gave a red powder which dyes cotton scarlet shades. IV 32 condensed with I 23, and the product coupled with diazotized o-HO₃SC₆H₄NH₂ 17.3 parts gave a bright red dye.

IT 14228-47-8P, 1,5-Naphthalenedisulfonic acid,
3-[[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]-
(preparation of)

RN 14228-47-8 HCAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]- (7CI, 8CI) (CA INDEX NAME)

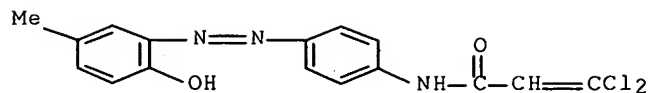


IC C09B
 CC 46 (Dyes)
 IT **14228-47-8P**, 1,5-Naphthalenedisulfonic acid,
 3-[[4-(2,3,3-trichloroacrylamido)-o-tolyl]azo]- 31902-21-3P,
 Sulfanilic acid, 2-[[1-(2,5-dichloro-4-sulfophenyl)-3-methyl-5-oxo-2-
 pyrazolin-4-yl]azo]-N-(trichloropyridazinyl)- 94375-55-0P,
 2-Naphthalenesulfonic acid, 7-(3,3-dichloroacrylamido)-4-hydroxy-3-[(o-
 sulfophenyl)azo]- **94375-56-1P**, 1,6-Naphthalenedisulfonic
 acid, 3-[[5-(3,3-dichloroacrylamido)-2-sulfophenyl]azo]-4-hydroxy-
94375-60-7P, Sulfanilic acid, N-(3,3-dichloroacryloyl)-2-[[1-
 (2,5-dichloro-4-sulfophenyl)-3-methyl-5-oxo-2-pyrazolin-4-yl]azo]-
96170-41-1P, 2-Anthracenesulfonic acid, 1-amino-4-[4-(3,3-
 dichloroacrylamido)-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-
 (preparation of)

L37 ANSWER 46 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1964:425909 HCAPLUS Full-text
 DOCUMENT NUMBER: 61:25909
 ORIGINAL REFERENCE NO.: 61:4521d-e
 TITLE: Azo pigment
 INVENTOR(S): Neave, Arthur S., Jr.; Crounse, Nathan N.
 PATENT ASSIGNEE(S): Sterling Drug Inc.
 SOURCE: 2 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 127391		19640331	US	19620111
			<--	
PRIORITY APPLN. INFO.:			US	19620111
			<--	

ED Entered STN: 22 Apr 2001
 AB Coupling 216 lb. 3,2-HOC10H6-CONHC6H4OMe-2 with diazotized 120 lbs.
 sulfanilamide gave I, m. 285-90° (decomposition), a fast scarlet pigment
 insol. in H2O, dilute aqueous NaOH, and C2Cl4, slightly soluble in boiling
 HCONMe2.
 IT **94298-36-9P**, Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-
 tolyl)azo]-
 (preparation of)
 RN 94298-36-9 HCAPLUS
 CN Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-tolyl)azo]- (7CI) (CA
 INDEX NAME)



INCL 260204000

CC 46 (Dyes)

IT 23850-84-2P, Acrylamide, 3,3-dichloro-N-[2-[p-[[2-chloro-4-(methylsulfonyl)phenyl]azo]-N-ethylanilino]ethyl]- **94298-36-9P**, Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-tolyl)azo]-94621-94-0P, Crotonanilide, 4-chloro-4'-[(6-hydroxy-m-tolyl)azo]-95957-19-0P, 2-Naphth-o-anisidide, 3-hydroxy-4-[(p-sulfamoylphenyl)azo]-
(preparation of)

L37 ANSWER 47 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:425908 HCAPLUS Full-text

DOCUMENT NUMBER: 61:25908

ORIGINAL REFERENCE NO.: 61:4521c-d

TITLE: Azo disperse dyes of low water solubility

INVENTOR(S): Senn, Otto

PATENT ASSIGNEE(S): Sandoz Ltd.

SOURCE: 4 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3122533		19640225	US 1960-55717	19600913
CH 378440			CH	
GB 961040			GB	
PRIORITY APPLN. INFO.:			CH	19590915

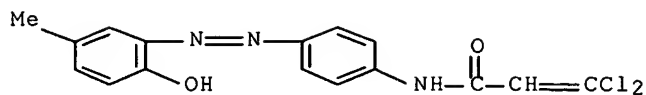
ED Entered STN: 22 Apr 2001

AB Disperse dyes for nylon having ≥ 1 reactive NHCOCH:CClX group, where $\text{X} = \text{Cl}$ or CH_2Cl , are prepared. Thus, a solution of 5,2-Me(HO)C₆H₃N: NC₆H₄NH₂-4 (I) 22.7 in dioxane 200 and H₂O 200 is cooled to 0° and mixed with ClCH₂CH:CHCOCl 17 in Me₂CO 50 parts. By simultaneous addition of NaOAc a pH of 6 is maintained. The solution is stirred for 2 hrs. at 0° and diluted with 500 parts H₂O to give a fast yellow dye for nylon. I (22.7 parts) treated similarly with 17 parts Cl₂C:CHCOCl gives a yellow dye m. 170°. 2,4-Cl(MeSO₂)C₆H₃NH₂ (20.5 parts) is diazotized and coupled with 27.2 parts Cl₂C:CHCONHCH₂CH₂NEtPh to give an orange dye.

IT **94298-36-9P**, Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-tolyl)azo]-
(preparation of)

RN 94298-36-9 HCAPLUS

CN Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-tolyl)azo]- (7CI) (CA
INDEX NAME)



INCL 260207000

CC 46 (Dyes)

IT 23850-84-2P, Acrylamide, 3,3-dichloro-N-[2-[p-[[2-chloro-4-(methylsulfonyl)phenyl]azo]-N-ethylanilino]ethyl]- **94298-36-9P**, Acrylanilide, 3,3-dichloro-4'-[(6-hydroxy-m-tolyl)azo]-94621-94-0P, Crotonanilide, 4-chloro-4'-[(6-hydroxy-m-tolyl)azo]- (preparation of)

L37 ANSWER 48 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:23143 HCAPLUS Full-text

DOCUMENT NUMBER: 60:23143

ORIGINAL REFERENCE NO.: 60:4054d-g

TITLE: New derivatives of trichloroacrylic acid

AUTHOR(S): Myska, J.; Stanek, S.; Ettel, V.; Marchalinova, M.

CORPORATE SOURCE: Vysoka Skola Chem.Technol., Prague

SOURCE: Collection of Czechoslovak Chemical Communications (1963), 28(11), 3154-8

CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

LANGUAGE: German

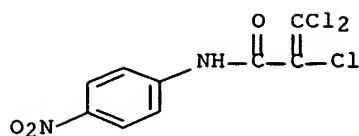
ED Entered STN: 22 Apr 2001

AB Amides, $\text{CCl}_2:\text{CClCONHX}$, were obtained in 65-85% yield by adding in 30 min. with stirring 0.063 mole of the resp. aromatic amine in 90-120 ml. dry C_6H_6 to 6 g. $\text{CCl}_2:\text{CClCOCl}$ in 60 ml. C_6H_6 , heating the mixture 30 min. on a boiling water bath, shaking with 7.5% HCl , and washing and drying as usual (X, m.p., and fungistatic activity as E.D.50 in mg./l. given): Ph, 98° , 48; 2- ClC_6H_4 , 70° , 9; 3- ClC_6H_4 , 95° , 142; 4- ClC_6H_4 , 146° , 710; 2,4- $\text{Cl}_2\text{C}_6\text{H}_3$, 118.5° , 186; 2,5- $\text{Cl}_2\text{C}_6\text{H}_3$, 130° , >2000; 3,4- $\text{Cl}_2\text{C}_6\text{H}_3$, 129.5° , 628; 2-Me C_6H_4 , 134.5° , >2000; 3-Me C_6H_4 , 116° , -; 4-Me C_6H_4 , 105.5° , >2000; 2-O $2\text{NC}_6\text{H}_4$, 115.5° , 22; 3-O $2\text{NC}_6\text{H}_4$, 122° , 81; 4-O $2\text{NC}_6\text{H}_4$, 188° , 19; 4,2-Me(O 2N) C_6H_3 , 123° , 292. Similarly were obtained, in 60-80% yields, esters of type $\text{CCl}_2:\text{CClCO}_2\text{Y}$ by treating dropwise with stirring and cooling a solution of 0.01 mole the resp. phenol and 0.01 mole pyridine in 80 ml. C_6H_6 with 0.01 mole $\text{CCl}_2:\text{CClCOCl}$ in 30 ml. C_6H_6 , stirring the mixture 2 hrs., shaking successively with 5% H_2SO_4 , 5% NaOH , and H_2O , working up the C_6H_6 -layer as usual, and recrystg. the evaporation residue from MeOH (Y, m.p. or n_{20D} , and E.D.50 given): Ph, 1.5555, 50; 2- ClC_6H_4 , 1.5671, 21; 4- ClC_6H_4 , m. 65° , 7; 2,4- $\text{Cl}_2\text{C}_6\text{H}_3$, m. 94° , 15; 2,6- $\text{Cl}_2\text{C}_6\text{H}_3$, m. 70.5° , 25; 2,4,5- $\text{Cl}_3\text{C}_6\text{H}_2$, m. 103° , 45; 2,4,5,6- $\text{Cl}_4\text{C}_6\text{H}$, m. 45° , 43; Cl_5C_6 , m. 97° , 29; 2-O $2\text{NC}_6\text{H}_4$, m. 77° , 1.3; 4-O $2\text{NC}_6\text{H}_4$, m. 109.5° , 2; 2,4-(O 2N) $2\text{C}_6\text{H}_3$, m. 110° , 0.6; 6,2,4-Me(O 2N) $2\text{C}_6\text{H}_2$, m. 61° , 0.4; 2,4,6- Cl_2 (O 2N) C_6H_2 , m. 70° , 1.2; 2,6,4- Cl_2 (O 2N) C_6H_2 , m. 70.5° , 0.6; 2,4,5,6- Cl_3 (O 2N) C_6H , 102° , 2.5. The 1st 14 compds. showed no herbicidal activity in concns. up to 10 mg./l. Relationships between chemical structure and fungistatic activity are discussed.

IT **956-57-0P**, Acrylanilide, 2,3,3-trichloro-4'-nitro- (preparation of)

RN 956-57-0 HCAPLUS

CN Acrylanilide, 2,3,3-trichloro-4'-nitro- (7CI, 8CI) (CA INDEX NAME)



CC 35 (Noncondensed Aromatic Compounds)

IT 949-35-9P, Acrylanilide, 2,2',3,3-tetrachloro- 949-53-1P,
 Acrylanilide, 2,3,3,3'-tetrachloro- 949-66-6P, p-Acrylotoluidide,
 2,3,3-trichloro- 955-51-1P, Acrylanilide, 2,3,3-trichloro-2'-nitro-
 956-51-4P, Acrylanilide, 2,3,3-trichloro-3'-nitro- **956-57-0P**
 , Acrylanilide, 2,3,3-trichloro-4'-nitro- 958-86-1P,
 p-Acrylotoluidide, 2,3,3-trichloro-2'-nitro- 1083-38-1P,
 Acrylanilide, 2,2',3,3,4'-pentachloro- 1212-10-8P, Acrylanilide,
 2,3,3,3',4'-pentachloro- 2224-90-0P, Phenol, 3,4,6-trichloro-2-nitro-
 , trichloroacrylate 2224-90-0P, Acrylic acid, trichloro-,
 3,4,6-trichloro-2-nitrophenyl ester **2224-91-1P**, Phenol,
 2,6-dichloro-4-nitro-, trichloroacrylate **2224-91-1P**, Acrylic
 acid, trichloro-, 2,6-dichloro-4-nitrophenyl ester 2224-92-2P,
 Acrylic acid, trichloro-, 2,4-dichloro-6-nitrophenyl ester
 2224-92-2P, Phenol, 2,4-dichloro-6-nitro-, trichloroacrylate
2224-93-3P, o-Cresol, 4,6-dinitro-, trichloroacrylate
2224-93-3P, Acrylic acid, trichloro-, 4,6-dinitro-o-tolyl
 ester **2224-94-4P**, Acrylic acid, trichloro-,
 2,4-dinitrophenyl ester **2224-94-4P**, Phenol, 2,4-dinitro-,
 trichloroacrylate **2224-95-5P**, Acrylic acid, trichloro-,
 p-nitrophenyl ester 2224-96-6P, Acrylic acid, trichloro-,
 o-nitrophenyl ester 2224-97-7P, Phenol, 2,3,4,6-tetrachloro-,
 trichloroacrylate 2224-97-7P, Acrylic acid, trichloro-,
 2,3,4,6-tetrachlorophenyl ester 2224-98-8P, Acrylic acid,
 trichloro-, 2,4,5-trichlorophenyl ester 2224-98-8P, Phenol,
 2,4,5-trichloro-, trichloroacrylate 2224-99-9P, Phenol,
 2,6-dichloro-, trichloroacrylate 2224-99-9P, Acrylic acid,
 trichloro-, 2,6-dichlorophenyl ester 3881-57-0P, Acrylic acid,
 trichloro-, pentachlorophenyl ester 3881-57-0P, Phenol,
 pentachloro-, trichloroacrylate 28637-08-3P, Acrylanilide,
 2,3,3-trichloro- 55205-24-8P, Acrylic acid, trichloro-, phenyl ester
 90415-54-6P, Acrylic acid, trichloro-, o-chlorophenyl ester
 90415-55-7P, Acrylic acid, trichloro-, p-chlorophenyl ester
 90415-56-8P, Acrylanilide, 2,2',3,3,5'-pentachloro- 90483-81-1P,
 Acrylanilide, 2,3,3,4'-tetrachloro- 90766-82-8P, Benzene,
 1,2,4,5-tetrakis(bromomethyl)-3,6-dinitro- 90767-94-5P,
 o-Acrylotoluidide, 2,3,3-trichloro- 91085-91-5P, Phenol,
 2,4-dichloro-, trichloroacrylate 91085-91-5P, Acrylic acid,
 trichloro-, 2,4-dichlorophenyl ester 91329-62-3P, m-Acrylotoluidide,
 2,3,3-trichloro-
 (preparation of)

L37 ANSWER 49 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1942:10092 HCAPLUS Full-text

DOCUMENT NUMBER: 36:10092

ORIGINAL REFERENCE NO.: 36:1596b-e

TITLE: Synthesis of lipophilic chemotherapeutics. V.
 N4-Acylsulfanilamides

AUTHOR(S): Bergmann, F.; Haskelberg, L.

SOURCE: Journal of the American Chemical Society (
1941), 63, 2243-5

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

ED Entered STN: 16 Dec 2001

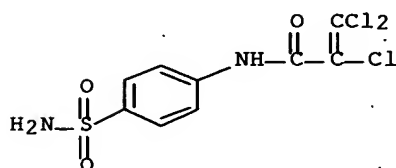
AB cf. C. A. 36, 423.1. Two methods of preparation were used: (I) $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ (II) (8.6 g.) in 50 cc. CHCl_3 and 4 g. $\text{C}_5\text{H}_5\text{N}$ at 0° is treated with 9.1 g. of Cl_3CCOCl in 25 cc. CHCl_3 and allowed to stand 12 h. at room temperature; the yield is 80%; (III) 8.6 g. II in 45 cc. AcOH and 45 cc. saturated aqueous AcONa (solution prepared by heating) is treated at -5° with 10.1 g. of hendecenoyl chloride and allowed to stand at room temperature for 12 h.; the yield is 70%. N_4 -Acylsulfanilamides: dichloroacetyl (I, III), m. 218° ; trichloroacetyl (I), m. 205° ; bromoacetyl (I), m. 218° (decomposition); trichloroacrylyl (III), m. 258° ; stearoyl (I), m. 245° (U. S. pat. 2,169,971, C. A. 34, 1134.4, gives the m. p. as 201°); oleoyl (I), m. 204° ; stearoloyl $[\text{Me}(\text{CH}_2)_7\text{C.tplbond.C}(\text{CH}_2)_7\text{CO}]$ (I), m. 189° ; hendecanoyl (I), m. 205° (decomposition); hendecenoyl (I, III), m. $194-6^\circ$; dibromohendecanoyl (I, III), m. $173-5^\circ$; cinnamoyl (I), m. $255-7^\circ$; trans- α,β -dibromocinnamoyl (III), m. 266° ; phenylpropiolyl (I), m. 254° . The following N_4,N_4 -bis(sulfanilamides) were prepared by method III, with acid chlorides of dibasic acids: isophthaloyl, adipyl and sebacyl; the yields were nearly quant. and the compds. m. above 300° . Heating 8.6 g. II and 7.2 g. of $\text{C}_6\text{H}_4(\text{CO})_2\text{O}$ 1 h. at 150° gives p-sulfamylphthalanilic acid, m. 338° ; the tetra-Cl derivative decomp. 322° . Boiling 17.2 g. II and 22.4 g. diphenic anhydride in PrOH for 1 h. gives 35 g. of p-sulfamyldiphenanilic acid, m. $278-9^\circ$ (decomposition). On mixing 34.4 g. II and 23.4 g. citraconic anhydride at 25° the temperature rose to 60° ; heating 1 h. on the water bath gave p-citraconimidophenylsulfonamide, m. $210-13^\circ$.

IT **857612-33-0P**, Acrylanilide, α,β,β -trichloro-p-sulfamyl-

(preparation of)

RN 857612-33-0 HCAPLUS

CN Acrylanilide, α,β,β -trichloro-p-sulfamyl- (4CI) (CA INDEX NAME)



CC 10 (Organic Chemistry)

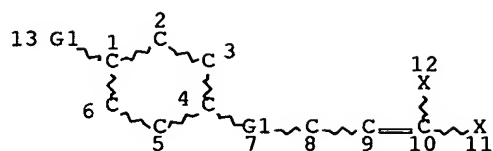
IT 5332-70-7P, Acetanilide, α -bromo-p-sulfamyl- 6720-17-8P, Hendecananilide, p-sulfamyl- 6955-49-3P, Phthalanilic acid, 4'-sulfamyl- 17122-47-3P, Acetanilide, α,α -dichloro-p-sulfamyl- 22795-59-1P, Acetanilide, α,α,α -trichloro-p-sulfamyl- 64260-77-1P, Benzenesulfonamide, p-(2,5-dihydro-3-methyl-2,5-dioxo-1-pyrryl)- 124130-70-7P, Oleanilide, p-sulfamyl- 163111-74-8P, Stearanilide, p-sulfamyl- 307339-71-5P, Adipanolide, p,p'-disulfamyl- 519017-77-7P, Isophthalanilide, 4',4''-disulfamyl- 854672-01-8P, Propiolanilide, β -phenyl-p-sulfamyl- **857612-33-0P**, Acrylanilide, α,β,β -trichloro-p-sulfamyl- 858803-33-5P, Stearolanilide, p-sulfamyl- 873382-64-0P, Phthalanilic acid,

10/560,292

3,4,5,6-tetrachloro-4'-sulfamyl- 873417-07-3P, Cinnamanilide,
p-sulfamyl- 873419-72-8P, Diphenanilic acid, 4''-sulfamyl-
873975-85-0P, Sebacanilide, p,p'-disulfamyl-
(preparation of)

=> d que 126

L3 STR



VAR G1=O/N/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

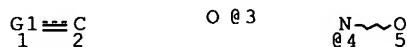
GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L6 STR



VAR G1=3/4

NODE ATTRIBUTES:

NSPEC IS RC AT 2

CONNECT IS E1 RC AT 3

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L7 2411 SEA FILE=REGISTRY SSS FUL L3
 L10 1244 SEA FILE=REGISTRY SUB=L7 SSS FUL L6
 L17 1015 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND 2-100/NR
 L20 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
 L22 23 SEA FILE=HCAPLUS ABB=ON PLU=ON ZAMBACH, W?/AU
 L23 3773 SEA FILE=HCAPLUS ABB=ON PLU=ON HALL, R?/AU
 L24 27 SEA FILE=HCAPLUS ABB=ON PLU=ON RENOLD, P?/AU
 L25 56 SEA FILE=HCAPLUS ABB=ON PLU=ON TRAH, S?/AU
 L26 6 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24 OR L25) AND L20

=> d que 143

L38 26 SEA ZAMBACH, W?/AU
 L39 37 SEA RENOLD, P?/AU
 L40 17 SEA TRAH, STEPHAN?/AU
 L41 107 SEA HALL, ROGER?/AU

L42 36 SEA (L38 OR L39 OR L40 OR L41) AND PESTICID?
 L43 4 SEA L42 AND KETO?

=> dup rem 126 143

FILE 'HCAPLUS' ENTERED AT 13:24:54 ON 30 JAN 2007
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 PROCESSING COMPLETED FOR L43

L44 9 DUP REM L26 L43 (1 DUPLICATE REMOVED)
 ANSWERS '1-6' FROM FILE HCAPLUS
 ANSWER '7' FROM FILE BIOSIS
 ANSWERS '8-9' FROM FILE WPIX

=> d his: 143

(FILE 'EMBASE, BIOSIS, DRUGU, MEDLINE, WPIX, JICST-EPLUS, JAPIO,
 LIFESCI, SCISEARCH' ENTERED AT 13:16:41 ON 30 JAN 2007)
 L43 4 S L42 AND KETO?

=> d 1-6 ibib ed ab fhitstr hitind

L44 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2004:1154652 HCAPLUS Full-text
 DOCUMENT NUMBER: 142:93516
 TITLE: Preparation of pesticidally active ketone and
 oxime derivatives
 INVENTOR(S): **Zambach, Werner; Hall, Roger**
Graham; Renold, Peter; Trah,
Stephan
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113273	A1	20041229	WO 2004-EP6749	20040622
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,			

GW, ML, MR, NE, SN, TD, TG
 EP 1638924 A1 20060329 EP 2004-740174 20040622
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 US 2006128670 A1 20060615 US 2005-560292 20051212
 PRIORITY APPLN. INFO.: CH 2003-1096 A 20030623
 WO 2004-EP6749 W 20040622

OTHER SOURCE(S): MARPAT 142:93516

ED Entered STN: 30 Dec 2004

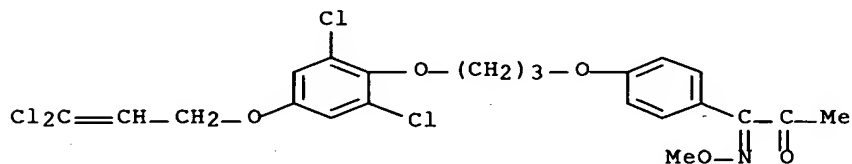
AB The title compds. I [A0-A3 = (un)substituted alkylene; Y = O, S, SO, SO₂, (un)substituted NH; M = O, NOR₆; X₁, X₂ = F, Cl, Br; R₁-R₃ = H, halo, OH, SH, CN, NO₂, alkyl, haloalkyl, alkylcarbonyl, alkenyl, haloalkenyl, alkynyl, etc.; Q = O, S, SO, SO₂, (un)substituted NH; W = O, S, SO, SO₂, CO₂, etc.; T = a bond, O, S, SO, SO₂, CO₂, etc.; D = CH, N; R₄ = H, halo, OH, SH, CN, NO₂, alkyl, haloalkyl, etc.; R₅ = alkyl, cycloalkyl, (un)substituted NH₂, etc.; R₆ = H, alkyl, cycloalkyl, etc.; k = 0-4; m = 1-2], were prepared E.g., a multi-step synthesis of II, starting from 2-bromo-1-(4-hydroxyphenyl)ethanone, which was more than 80% effective against *Heliothis virescens*, *Plutella xylostella*, and *Spodoptera littoralis*, was given. The invention also relates to pesticidal compns. in which the active ingredient has been selected from the compds. I and agrochem. acceptable salts thereof, and a process for the preparation of those compns. and their use, to plant propagation material treated with those compns., and a method of controlling pests.

IT **818375-28-9P**

(preparation of pesticidally active ketone and oxime derivs.)

RN 818375-28-9 HCAPLUS

CN 1,2-Propanedione, 1-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-, 1-(O-methyloxime) (9CI) (CA INDEX NAME)



IC ICM C07C251-44

ICS C07C251-48; C07C251-54; C07C251-58; C07D261-08; C07C235-84;
 C07C049-84; A01N033-16; A01N035-10; A01N035-04; A01N037-18;
 A01N043-26

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

IT **818375-28-9P**

(preparation of pesticidally active ketone and oxime derivs.)

IT **818375-24-5P 818375-25-6P 818375-26-7P**

818375-27-8P 818375-29-0P 818375-30-3P

818375-31-4P 818375-32-5P 818375-33-6P

818375-34-7P 818375-35-8P 818375-36-9P

818375-37-0P 818375-38-1P 818375-39-2P

818375-40-5P 818375-41-6P 818375-42-7P

818375-43-8P 818375-44-9P 818375-45-0P

818375-46-1P 818375-47-2P 818375-48-3P

818375-49-4P 818375-50-7P 818375-51-8P
 818375-52-9P 818375-53-0P 818375-54-1P
 818375-55-2P 818375-56-3P 818375-57-4P
 818375-58-5P 818375-59-6P 818375-60-9P
 818375-61-0P 818375-62-1P 818375-63-2P
 818375-64-3P 818375-65-4P 818375-66-5P
 818375-67-6P 818375-68-7P 818375-69-8P
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 818375-73-4P 818375-74-5P 818375-75-6P
 818375-76-7P 818375-77-8P 818375-78-9P
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 818376-15-7P 818376-16-8P 818376-17-9P
 818376-18-0P 818376-19-1P 818376-20-4P
 819072-24-7P

(preparation of pesticidally active ketone and oxime derivs.)

IT 17159-98-7P 32136-81-5P, 2-Methoxy-1-(4-hydroxyphenyl)ethanone
 669055-86-1P 818376-21-5P 818376-22-6P
 818376-23-7P 818376-24-8P

(preparation of pesticidally active ketone and oxime derivs.)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L44 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:673280 HCAPLUS Full-text

DOCUMENT NUMBER: 143:172877

TITLE: Preparation of various heterocyclic allyl
 derivatives as pesticides

INVENTOR(S): Hall, Roger Graham; Trah,
 Stephan; Zambach, Werner; Tuleja,
 Juraj

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005068445	A2	20050728	WO 2005-EP94	20050107
WO 2005068445	A3	20050922		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,			

VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1706392 A2 20061004 EP 2005-706845 20050107
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
 PRIORITY APPLN. INFO.: CH 2004-23 A 20040108
 WO 2005-EP94 W 20050107

OTHER SOURCE(S): CASREACT 143:172877; MARPAT 143:172877

ED Entered STN: 29 Jul 2005

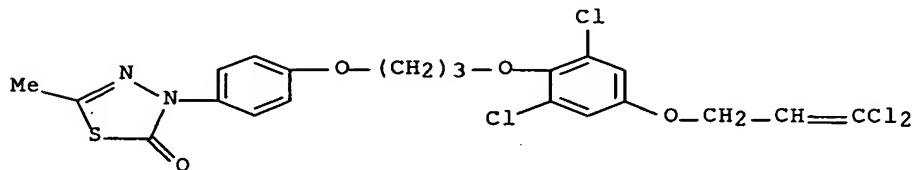
AB Title compds. I [Het = non-aromatic heterocyclyl; A1-3 = alkylene, cycloalkyl, etc.; A4 = alkylene bridge; D = CH, N; W = O, amino, SO0-2; etc.; T = bond, O, NH, etc.; Q = O, amino, SO0-2; Y = O, amino, SO0-2; X1-2 = F, Cl, Br; R1-2 = H, halo, CN, NO2, alkyl, haloalkyl, etc.; R3 = halo, CN, NO2, etc.; R4 = halo, CN, NO2, etc.; n = 0-3 when D = N or is 0-4 when D = CH; m = 0-2] are prepared For instance, II is prepared in several steps from 4-methoxyphenylhydrazine•HCl, pivaloyl chloride and 4-(3-bromopropan-1-yloxy)-3,5-dichloro-1-(3,3-dichloroprop-2-enyloxy)benzene. II shows good activity against *Heliothis virescens*.

IT 860629-18-1P

(preparation of various heterocyclic allyl derivs. as pesticides)

RN 860629-18-1 HCAPLUS

CN 1,3,4-Thiadiazol-2(3H)-one, 3-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-5-methyl- (9CI) (CA INDEX NAME)



IC ICM C07D285-12

ICS C07D271-10; C07D249-12; C07D257-04; C07D237-14; C07D241-18;
 C07D239-36; C07D273-04; C07D233-72

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 63

IT 860629-18-1P 860629-19-2P 860629-20-5P

860629-21-6P 860629-22-7P 860629-23-8P

860629-24-9P 860629-25-0P 860629-26-1P

860629-27-2P 860629-28-3P 860629-29-4P

860629-30-7P 860629-31-8P

(preparation of various heterocyclic allyl derivs. as pesticides)

L44 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:182604 HCAPLUS Full-text

DOCUMENT NUMBER: 142:280219

TITLE: Preparation of (3,3-dihaloallyloxy)phenol
 derivatives as pesticides

INVENTOR(S): Zambach, Werner; Trah, Stephan

PATENT ASSIGNEE(S): ; Hall, Roger Graham; Lutz, William
 SOURCE: Syngenta Participations A.-G., Switz.
 PCT Int. Appl., 69 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019147	A2	20050303	WO 2004-EP9500	20040825
WO 2005019147	A3	20050407		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 1659863 A2 20060531 EP 2004-764476 20040825 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK PRIORITY APPLN. INFO.: CH 2003-1454 A 20030826 WO 2004-EP9500 W 20040825				

OTHER SOURCE(S): MARPAT 142:280219

ED Entered STN: 04 Mar 2005

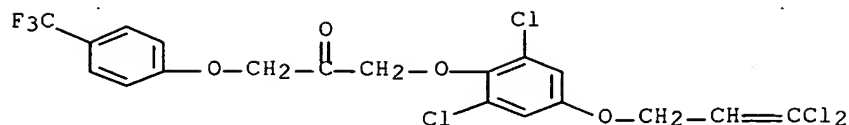
AB There are described compds. of formula (I) [wherein X1, X2 = independently F, Cl or Br; A1, A2 = a bond, (un)substituted C1-6 alkylene bridge; A3 = (un)substituted C1-6 alkylene bridge; R1, R2 halogen, OH, SH, cyano, NO2, C1-6 alkyl, C1-6 haloalkyl, C1-6 alkyl-carbonyl, C2-6 alkenyl, C2-6 haloalkenyl, C2-6 alkynyl, etc.; R3 = H, halogen, OH, SH, cyano, NO2, C1-6 alkyl, C1-6 haloalkyl, etc.; R4, R5 = H, halogen, cyano, NO2, C1-6 alkyl, C1-3 haloalkyl, etc.; m = 1 or 2; Q, Y = O, S, SO, SO2, (un)substituted NH; W, T = a bond, O, S, SO, SO2, C(O)O, OC(O), each (un)substituted NH, CH:N-O, CONH, or NHCO; E = (un)substituted aryl or heterocyclyl] where applicable, their possible E/Z isomers, E/Z isomeric mixts. and/or tautomers, in each case in free form or in salt form. Pesticidal compns. in which the active ingredient has been selected from those compds. I and agrochem. acceptable salts thereof are also described. Thus, 74 mg 3,3-dichloro-2-(4-trifluoromethylphenyl)acrylic acid, 67 mg of bis(2-oxo-3-oxazolidinyl)phosphinic acid chloride, 53 mg Et3N, and 100 mg [3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propyl]amine were stirred in 2 mL CH2Cl2 for 48 h at 40° to give, after workup and silica gel chromatog., 3,3-dichloro-N-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propyl]-2-(4-trifluoromethylphenyl)acrylamide (II; R = Q1). II (R = Q1) and II (R = Q2) at 400 ppm with aqueous emulsion spray killed 80% Heliothis virescens caterpillars on young soybean plants.

IT 847344-39-2P

(intermediate; preparation of (dihaloallyloxy)phenol derivs. as pesticides)

RN 847344-39-2 HCAPLUS

CN 2-Propanone, 1-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]-3-[4-(trifluoromethyl)phenoxy]- (9CI) (CA INDEX NAME)



- IC ICM C07C043-00
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5, 25, 27
 IT 198226-65-2P 847344-36-9P 847344-37-0P 847344-38-1P
847344-39-2P 847344-40-5P **847344-41-6P**
 847344-42-7P **847344-43-8P**
 (intermediate; preparation of (dihaloallyloxy)phenol derivs. as pesticides)
 IT **847343-31-1P 847343-32-2P 847343-33-3P**
847343-34-4P 847343-35-5P 847343-36-6P
 847343-37-7P 847343-38-8P 847343-39-9P 847343-40-2P
 847343-41-3P 847343-42-4P 847343-43-5P 847343-44-6P
847343-45-7P 847343-46-8P 847343-47-9P
847343-48-0P 847343-49-1P 847343-50-4P
 847343-51-5P 847343-52-6P **847343-53-7P**
847343-54-8P 847343-55-9P **847343-56-0P**
847343-57-1P 847343-58-2P 847343-59-3P
847343-60-6P 847343-61-7P 847343-62-8P
847343-63-9P 847343-64-0P 847343-65-1P
847343-66-2P 847343-67-3P 847343-68-4P
847343-69-5P 847343-70-8P 847343-71-9P
847343-72-0P 847343-73-1P 847343-74-2P
847343-75-3P 847343-76-4P **847343-77-5P**
847343-78-6P 847343-79-7P 847343-80-0P
 847343-81-1P **847343-82-2P 847343-83-3P**
 847343-84-4P 847343-85-5P 847343-86-6P **847343-87-7P**
 847343-88-8P 847343-89-9P 847343-90-2P 847343-91-3P
 847343-92-4P 847343-93-5P 847343-94-6P 847343-95-7P
 847343-96-8P 847343-97-9P 847343-98-0P 847343-99-1P
 847344-00-7P **847344-01-8P** 847344-02-9P 847344-03-0P
847344-05-2P 847344-06-3P 847344-07-4P
847344-08-5P 847344-09-6P 847344-10-9P
 847344-11-0P 847344-12-1P 847344-13-2P 847344-14-3P
 847344-15-4P 847344-16-5P 847344-17-6P 847344-18-7P
 847344-19-8P 847344-20-1P 847344-21-2P 847344-22-3P
 847344-23-4P 847344-24-5P 847344-25-6P 847344-26-7P
 847344-27-8P 847344-28-9P 847344-29-0P **847344-30-3P**
 847344-31-4P 847344-32-5P 847344-33-6P 847344-34-7P
 847344-35-8P
 (preparation of (dihaloallyloxy)phenol derivs. as pesticides)

L44 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:513651 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:71344
 TITLE: Preparation of dihalo-allyloxy-phenol derivatives
 having pesticidal activity
 INVENTOR(S): **Zambach, Werner; Renold, Peter**
; Hall, Roger Graham; Trah,
Stephan
 PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052816	A1	20040624	WO 2003-EP14009	20031210
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003288248	A1	20040630	AU 2003-288248	20031210
EP 1572612	A1	20050914	EP 2003-780146	20031210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006509794	T	20060323	JP 2004-558059	20031210
US 2006014806	A1	20060119	US 2005-537444	20050602
PRIORITY APPLN. INFO.:			CH 2002-2104	A 20021211
			WO 2003-EP14009	W 20031210

OTHER SOURCE(S): MARPAT 141:71344

ED Entered STN: 25 Jun 2004

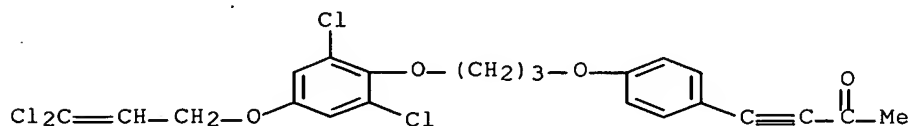
AB The title compds. [I; A1, A2 = a bond, alkylene; A3 = alkylene; X1, X2 = F, Cl, Br; Y = O, NR7, S, SO, SO2; R1-R3 = H, halo, OH, SH, CN, NO2, alkyl, haloalkyl, alkylcarbonyl, alkenyl; Q = O, NR5, S, SO, SO2; W = O, NR5, SO, etc.; T = a bond, O, NR5, etc.; D is CH or N; R4 = H, halogen, OH, SH, CN, NO2, etc.; R5, R7 = H, alkyl, haloalkyl, etc.; k = 1-4; m = 1-2; R10 = radical which contains O, N or S; R11 = H, alkyl or a radical which contains from 1-3 hetero atoms selected from O, N and S; or R11 together with R12 is a bond; R12 = H, alkyl, haloalkyl, alkoxyalkyl, etc.] useful for controlling pests, were prepared. Thus, reacting cyanomethanephosphoric acid di-Et ester with 4-{3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy}benzaldehyde afforded II which was more than 80% effective against *Heliothis virescens* caterpillars, *Plutella xylostella* caterpillars, and *Spodoptera littoralis*.

IT 711012-73-6P

(preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

RN 711012-73-6 HCAPLUS

CN 3-Butyn-2-one, 4-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]- (9CI) (CA INDEX NAME)



IC ICM C07C043-225
 ICS C07C049-255; C07C049-557; C07C069-66; C07C205-32; C07C251-40;
 C07C255-32; C07C271-16; C07D213-57; C07D263-32; C07D307-54;
 C07D307-81; C07D333-24; C07D213-00

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5

IT 711012-60-1P 711012-61-2P 711012-62-3P 711012-63-4P
 711012-64-5P 711012-65-6P 711012-67-8P 711012-68-9P
 711012-69-0P 711012-70-3P 711012-71-4P 711012-72-5P
711012-73-6P 711012-74-7P 711012-75-8P
711012-76-9P 711012-77-0P 711012-78-1P
711012-79-2P 711012-80-5P 711012-81-6P
711012-82-7P 711012-83-8P 711012-84-9P
 711012-85-0P 711012-86-1P 711012-87-2P 711012-88-3P
 711012-89-4P 711012-90-7P **711012-91-8P**
711012-92-9P 711012-93-0P 711012-94-1P
 711012-95-2P 711012-96-3P **711012-97-4P** 711012-98-5P
 711012-99-6P 711013-00-2P 711013-01-3P 711013-02-4P
 711013-03-5P **711013-04-6P**
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

IT 540-38-5, 4-Iodophenol 867-13-0, Phosphonoacetic acid triethyl ester
 2028-63-9, 3-Butyn-2-ol 2491-38-5 50586-62-4 **214704-58-2**
 669055-91-8
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

IT 32136-81-5P 711013-05-7P **711013-06-8P**
 (preparation of dihalo-allyloxy-phenol derivs. having pesticidal activity)

L44 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:203839 HCAPLUS Full-text

DOCUMENT NUMBER: 140:253566

TITLE: Preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides.

INVENTOR(S): **Zambach, Werner; Steiger, Arthur; Renold, Peter; Trah, Stephan; Hall, Roger Graham**

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004020445	A2	20040311	WO 2003-EP9636	20030829
WO 2004020445	A3	20040415		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,

BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG

AU 2003266333 A1 20040319 AU 2003-266333 20030829
 EP 1537077 A2 20050608 EP 2003-790947 20030829
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2006507245 T 20060302 JP 2004-532153 20030829
 US 2005288186 A1 20051229 US 2005-525891 20050225
 PRIORITY APPLN. INFO.: CH 2002-1487 A 20020830
 WO 2003-EP9636 W 20030829

OTHER SOURCE(S): MARPAT 140:253566

ED Entered STN: 14 Mar 2004

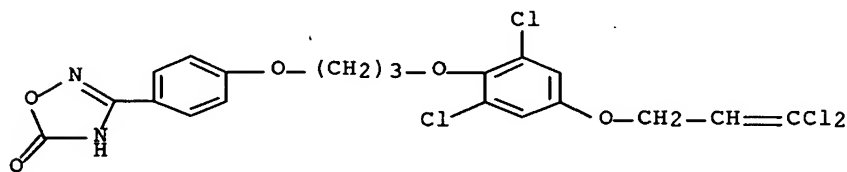
AB Title compds. [I; A0-A2 = bond, (substituted) alkylene; A3 = (substituted) alkylene; D = CH, N; X1, X2 = F, Cl, Br; R1-R3 = H, halo, OH, SH, cyano, NO2, alkyl, haloalkyl, alkylcarbonyl, alkenyl, haloalkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkoxycarbonyl, etc.; R4 = H, halo, OH, SH,, cyano, NO2, alkyl, haloalkyl, alkylcarbonyl, alkoxy, alkylsulfonyl, alkoxycarbonyl, etc.; W = O, NR6, S, SO, SO2, CO2, etc.; T = bond, O, NH, NR6, S, SO, SO2, CO2, etc.; Q, Y = O, NR6, S, SO, SO2; R6 = H, alkyl, haloalkyl, alkylcarbonyl, haloalkylcarbonyl, alkoxyalkyl, cycloalkyl, PhCH2; E = (substituted) heteroaryl; m = 1, 2; n = 1-3 when D = N; n = 1-4 when D = CH], were prepared Thus, 5-[4-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy]phenyl]-2H-tetrazole (preparation given) was stirred with EtI and K2CO3 in DMF for 4 h at 50° to give 5-[4-[3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propoxy]phenyl]-2H-2-ethyltetrazole. The latter as a 400 ppm spray on cabbage plants was >80% effective against *Heliothis virescens* caterpillars.

IT **669055-75-8P**

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

RN 669055-75-8 HCAPLUS

CN 1,2,4-Oxadiazol-5(2H)-one, 3-[4-[3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]- (9CI) (CA INDEX NAME)



IC ICM C07D521-00

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5, 27

IT 669055-61-2P 669055-62-3P 669055-63-4P 669055-64-5P
 669055-65-6P 669055-66-7P 669055-67-8P 669055-68-9P
 669055-69-0P 669055-70-3P 669055-71-4P 669055-72-5P
 669055-73-6P 669055-74-7P **669055-75-8P** 669055-76-9P
 669055-77-0P 669055-78-1P 669055-79-2P 669055-80-5P
 669055-81-6P 669055-82-7P 669055-83-8P

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

IT 669055-84-9P 669055-85-0P **669055-86-1P** 669055-87-2P,

4-(5-Isopropylsulfanyl-tetrazol-1-yl)-phenol 669055-88-3P
 669055-89-4P 669055-90-7P

(preparation of dihaloallyloxyphenoxypropoxyphenylazoles as pesticides)

L44 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:20645 HCAPLUS Full-text

DOCUMENT NUMBER: 140:93783

TITLE: Preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides

INVENTOR(S): **Zambach, Werner; Renold, Peter**
 ; Steiger, Arthur; Trah, Stephan;
Hall, Roger Graham

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002943	A1	20040108	WO 2003-EP6846	20030627
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003246623	A1	20040119	AU 2003-246623	20030627
EP 1517881	A1	20050330	EP 2003-761545	20030627
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003012287	A	20050412	BR 2003-12287	20030627
CN 1681771	A	20051012	CN 2003-815304	20030627
JP 2005531621	T	20051020	JP 2004-516728	20030627
US 2005245583	A1	20051103	US 2004-518888	20041221
IN 2004CN02919	A	20060217	IN 2004-CN2919	20041222
PRIORITY APPLN. INFO.:			CH 2002-1123	A 20020628

WO 2003-EP6846 W 20030627

OTHER SOURCE(S): MARPAT 140:93783

ED Entered STN: 11 Jan 2004

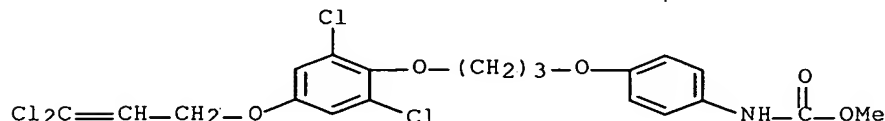
AB The title compds. [I; A1-A3 = a bond, alkylene; A4 = alkylene; D = CH, N; W = O, NR7, S, etc.; T = a bond, O, NH, NR7, etc.; Q = O, NR7, S, SO or SO2; Y = O, NR7, S, SO, or SO2; X1, X2 = F, Cl, Br; R1-R3 = H, halo, CN, NO2, alkyl, etc.; R4 = H, halo, CN, NO2, alkyl, etc.; R5, R6 = H, CN, OH, alkyl, etc.; R7 = H, alkyl, alkoxyalkyl, alkylcarbonyl, etc.; k = 1-3 when D = N, or k = 1-4 when D = CH; and m = 1-2], useful for controlling pests, were prepared Thus, reacting 3-[2,6-dichloro-4-(3,3-dichloroallyloxy)phenoxy]propan-1-ol with tert-Bu (4-hydroxyphenyl)carbamate in the presence of azadicarboxylic acid diisopropyl ester and PPh3 in THF afforded II which showed to be more than 80% effective against *Heliothis virescens* caterpillars at 400 ppm.

IT 642461-12-9P

(preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides)

RN 642461-12-9 HCAPLUS

CN Carbamic acid, [4-{3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenoxy]propoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



IC ICM C07C233-75

ICS C07C233-60; C07C233-25; C07C233-61; C07C233-33; C07C233-76;
C07C233-80; C07C233-62; C07C233-34; C07C271-58; C07C271-28;
C07C217-84; A01N047-20; A01N039-00; A01N037-24; A01N033-02CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 642461-10-7P 642461-11-8P 642461-12-9P

642461-13-0P 642461-14-1P 642461-15-2P

642461-16-3P 642461-17-4P 642461-19-6P

642461-20-9P 642461-22-1P 642461-24-3P

642461-25-4P 642461-26-5P 642461-27-6P

642461-28-7P 642461-29-8P 642461-30-1P

642461-31-2P 642461-32-3P 642461-33-4P

642461-34-5P 642461-35-6P 642461-36-7P

642461-37-8P 642461-38-9P 642461-39-0P

642461-40-3P 642461-41-4P 642461-42-5P

642461-43-6P 642461-44-7P 642461-45-8P

642461-46-9P 642461-47-0P 642461-48-1P

642461-50-5P 642461-51-6P 642461-52-7P

642461-53-8P 642461-54-9P 642461-55-0P

642461-56-1P 642461-57-2P 642461-58-3P

642461-59-4P 642461-60-7P 642461-61-8P

642461-62-9P 642461-63-0P 642461-64-1P

642461-65-2P 642461-66-3P 642461-67-4P

642461-68-5P 642461-69-6P 642461-70-9P

642461-71-0P

(preparation of of 1-{4-(3,3-dihaloallyloxy)phenoxy}-3-phenoxypropanes as pesticides)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

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L44 ANSWER 7 OF 9 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on
STNACCESSION NUMBER: 2001:556812 BIOSIS Full-text

DOCUMENT NUMBER: PREV200100556812

TITLE: Total synthesis of (+-)-rocaglamide and some aryl
analogues.AUTHOR(S): Dobler, Markus R. [Reprint author]; Bruce, Ian;
Cederbaum, Fredrik; Cooke, Nigel G.; Diorazio, Louis

J.; Hall, Roger G.; Irving, Ed
 CORPORATE SOURCE: Syngenta Crop Protection AG, WRO-1060.3.10, 4002,
 Basel, Switzerland
 markus.dobler@syngenta.com
 SOURCE: Tetrahedron Letters, (19 November, 2001) Vol. 42, No.
 47, pp. 8281-8284. print.
 CODEN: TELEAY. ISSN: 0040-4039.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 5 Dec 2001
 Last Updated on STN: 25 Feb 2002
 AB The insecticidal activity found for rocaglamide and its congeners, prompted us
 to establish a short and efficient synthesis of the natural product and some
 synthetic 'halo-aryl' analogues. Pd-catalysed cross-coupling reactions of the
 bromo analogue were then explored in order to gain a suitable access to a
 broad range of unnatural analogues. The key step of our approach is a **keto** -
 aldehyde acyloin ring-closure followed by a Stiles carboxylation.
 CC Biochemistry studies - General 10060
 Pest control: general, pesticides and herbicides 54600
 IT Major Concepts
 Biochemistry and Molecular Biophysics; Methods and Techniques;
Pesticides
 IT Chemicals & Biochemicals
 dextro-rocaglamide: bromo-analogue, halo-aryl analogues,
 insecticidal activity, synthesis
 IT Methods & Equipment
 Stiles carboxylation: synthetic method; **keto**-aldehyde
 acyloin ring-closure: synthetic method
 IT Miscellaneous Descriptors
 cross-coupling reaction: palladium-catalyzed, synthetic method

=> d 8-9 iall abeq tech abex

L44 ANSWER 8 OF 9 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2001-112299 [12] WPIX
 DOC. NO. CPI: C2001-033348 [12]
 TITLE: New tetrazine derivatives useful as
pesticides
 DERWENT CLASS: B02; B03; C02; D22; E13; F06
 INVENTOR: EBERLE M; JEANGUENAT A; NAEF R; STEIGER A; TRAH S;
ZAMBACH W
 PATENT ASSIGNEE: (NOVS-C) NOVARTIS AG; (NOVS-C) NOVARTIS-ERFINDUNGEN
 VERW GES MBH; (SYNG-N) SYNGENTA PARTICIPATIONS AG
 COUNTRY COUNT: 93

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2000078739	A1	20001228	(200112)*	EN	88[0]	C07D257-08
AU 2000054056	A	20010109	(200122)	EN		C07D257-08
EP 1187818	A1	20020320	(200227)	EN		C07D257-08
JP 2003502413	W	20030121	(200308)	JA	112	C07D257-08

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000078739	A1	WO 2000-EP5627	20000619

AU 2000054056 A
 EP 1187818 A1
 EP 1187818 A1
 JP 2003502413 W
 JP 2003502413 W

AU 2000-54056 20000619
 EP 2000-938800 20000619
 WO 2000-EP5627 20000619
 WO 2000-EP5627 20000619
 JP 2001-504905 20000619

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000054056 A	Based on	WO 2000078739 A
EP 1187818 A1	Based on	WO 2000078739 A
JP 2003502413 W	Based on	WO 2000078739 A

PRIORITY APPLN. INFO.: CH 1999-1148 19990621

INT. PATENT CLASSIF.:

MAIN: C07D257-08
 IPC RECLASSIF.: A01N0043-713 [I,A]; A01N0043-713 [I,C]; C07D0257-00 [I,C]; C07D0257-08 [I,A]; C07D0401-00 [I,C]; C07D0401-04 [I,A]
 INDEX: C07M007:00

BASIC ABSTRACT:

WO 2000078739 A1 UPAB: 20050524
 NOVELTY - Tetrazine derivatives (I) are new.
 DETAILED DESCRIPTION - Tetrazine derivatives of formula (I) and their E/Z isomers and/or tautomers and salts are new.
 T-V = NN or NHNH;
 X1 = a group R1;
 X2 = X3, H or R1;
 R1 = halo, CN, NO2, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio or 3-8C halocycloalkylthio;
 Ar1 = aryl or heteroaryl (both optionally substituted by 1-5 Q);
 Q = OH, halo, CN, NO2, 1-6C alkyl, 3-8C cycloalkyl, 1-6C alkyl-3-8C cycloalkyl, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio, 1-6C alkylsulfonyl, 3-8C cycloalkylsulfinyl, 1-6C haloalkylsulfinyl, 3-8C halocycloalkylsulfinyl, 1-6C alkylsulfonyl, 3-8C cycloalkylsulfonyl, 1-6C haloalkylsulfonyl, 3-8C halocycloalkylsulfonyl, 2-8C alkenyl, 2-8C alkynyl, 2-7C alkylcarbonyl, (1-6C alkyl)C(=NOR-2) or R3;
 Ar2 = aryl or heteroaryl (both optionally substituted by 1-5 Q);
 A = a bond, 1-12C alkylene, O, O-12C alkylene, S(O)n, S(O)n-1-12C alkylene, 2-8C alkenylene, 2-8C alkenylene, 2-8C alkynylene, NR6, NR61-12C alkylene or C(=Z);
 Z = O, NR4, NNR4R5 or NOR4;
 R2 = H, 1-6C alkyl or 3-8C cycloalkyl;
 R3 = a group of formula (a);
 R4, R5 = H, 1-6C alkyl or 1-6C haloalkyl;
 R6 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 2-8C alkenyl, 2-8C alkynyl, aryl-1-6C alkyl, (CH2)pC(O)R7 or 1-6C alkoxy-2-6C alkyl;
 R7 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 1-6C alkoxy, N(R8)2 or 1-6C alkoxy-2-6C alkyl;
 R8 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl or aryl-1-6C alkyl;
 R9, R10 = H or 1-6C alkyl;
 m = 1-4;
 n = 0-2;
 p = 0-6 and
 Q = O or S,

provided that when T-V is NH-NH, then X1 is halo, X2 and X3 are H, Ar1 and Ar2 are optionally substituted phenyl, then A is not a bond.

ACTIVITY - **Pesticidal**; insecticidal; antiparasitic; acaricidal; antifungal.

MECHANISM OF ACTION - None given.

USE - Used for control of pests on domestic animals and productive livestock and in crops of useful plants. (I) Are active against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests such as insects and acarina. (I) Are active against e.g. plant-destructive feeding insects such as *Anthonomus grandis*, *Diabrotica balteata*, *Heliothis virescens* larvae, *Plutella xylostella* and *Spodoptera littoralis* larvae and spider mites such as *Tetranychus* species in cotton, fruit, citrus, maize, soybean, rape and vegetable crops.

(I) Are also useful for protecting plant propagation material such as fruits, tubers or grains, or plant cuttings against fungal infections and animal pests. (I) Can be used in natural and genetically modified crops, especially cereals such as wheat, barley, rye, oats, rice, maize and sorghum, beet such as sugar and fodder beet, fruit, e.g. pomes, stone fruit and soft fruit such as apples, pears, plums, peaches, almonds, cherries and berries such as strawberries, raspberries and blackberries, legumes such as beans, lentils, peas and soybeans, oil plants such as rape, mustard, poppy, olives, sunflowers, coconut, castor oil, cocoa and groundnuts, cucurbitaceae such as marrows, cucumbers and melons, fiber plants such as cotton, flax, hemp and jute, citrus fruits such as oranges, lemons, grapefruit and mandarins, vegetables such as spinach, lettuce, asparagus, cabbage, carrots, onions, tomatoes, potatoes and paprika, lauraceae such as avocado, cinnamon and camphor and tobacco, nuts, coffee, aubergines, sugar cane, tea, pepper, vines, hops, bananas, natural rubber plants and ornamentals.

(I) Are also used to protect stored goods and storerooms and raw materials and in the hygiene sector, especially in the protection of warm blooded animals including farm animals such as cows, pigs, sheep and goats, poultry such as hens, turkeys and geese, animals bred for their fur such as mink, foxes, chinchillas and rabbits and domestic animals such as cats and dogs and humans against e.g. fleas.

(I: T-V = N=N; R1, X3 = H; X1, X2 = F; R2 = -(3,5-Cl2-Ph) gives at least 80% reduction in pest populations of *Diabrotica balteata*, *Heliothis virescens* and *Spodoptera littoralis* at an application rate of 100 ppm.

ADVANTAGE - (I) Are well tolerated by warm-blooded animals, fish and plants. (I) Have an advantageous biocidal spectrum even at low concentrations.

MANUAL CODE: CPI: B06-H; B07-D13; B14-B02; B14-B04A; B14-B04B;
C06-H; C07-D13; C14-A06; C14-B02; C14-B04A; C14-B04B;
D09-B; E06-H; E07-D13; F03-C02B

TECH

ORGANIC CHEMISTRY - Preparation: Preparation of (I) comprises e.g. reacting a hydrazine derivative of formula (II) and a **ketone** compound of formula (III) in the presence of a catalyst.

ABEX WIDER DISCLOSURE - Intermediates of formula (VI) are also stated to be new. - Q1 = a leaving group.

ADMINISTRATION - The application rate is 1-2000 (especially 20-600) g a.i./ha. For treatment of animals administration may be external or internal at a rate of 0.01-800 (especially 0.5-30) mg/kg. (I) can be used alone or in combination with other biocides.

EXAMPLE - Phosphorus pentachloride (6.97 g) at 110degreesC was introduced into dichlorobenzene (30 ml) over 15 minutes and 4'-chlorobiphenyl-4-carboxylic acid N'-(2,6-difluorobenzoyl)hydrazide (2.88 g) was added portionwise. The mixture was stirred for 2.5 hours and worked up to give N-(chloro-(4'-chlorobiphenyl-4-yl)-methylidene)-N'-(chloro-(2,6-difluorophenyl)-methylidene)hydrazine, m. pt. 149-161degreesC. This product (2.2 g) was added portionwise at 15-20degreesC to 22 ml 0.5M hydrazine in tetrahydrofuran and the

mixture stirred at room temperature for 45 hours. The mixture was then poured into water and worked up to give 3-(4'-chlorobiphenyl-4-yl)-6-(2,6-difluorophenyl)-1,2-dihydro(1,2,4,5)-tetrazine, m. pt. 242-248degreesC.

L44 ANSWER 9 OF 9 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2000-665334 [64] WPIX
 DOC. NO. CPI: C2000-201613 [64]
 TITLE: New 1,2,4-triazine derivatives useful as
pesticides on plants and animals
 DERWENT CLASS: C02
 INVENTOR: EBERLE M; FAROOQ S; JEANGUENAT A; STEIGER A; TRAH S;
ZAMBACH W
 PATENT ASSIGNEE: (EBER-I) EBERLE M; (FARO-I) FAROOQ S; (JEAN-I)
 JEANGUENAT A; (NOVS-C) NOVARTIS AG; (NOVS-C) NOVARTIS
 ANIMAL HEALTH US INC; (NOVS-C) NOVARTIS PHARMA GMBH;
 (NOVS-C) NOVARTIS-ERFINDUNGEN VERW GES MBH; (STEI-I)
 STEIGER A; (TRAH-I) TRAH S; (ZAMB-I) ZAMBACH W;
 (SYGN-C) SYNGENTA PARTICIPATIONS AG
 COUNTRY COUNT: 91

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2000066568	A1	20001109	(200064)*	EN	101[0]	
AU 2000042986	A	20001117	(200111)	EN		
EP 1175410	A1	20020130	(200216)	EN		
BR 2000010294	A	20020213	(200220)	PT		
CZ 2001003961	A3	20020213	(200221)	CS		
KR 2002011406	A	20020208	(200255)	KO		A01N043-707
CN 1349514	A	20020515	(200260)	ZH		
ZA 2001008943	A	20020828	(200264)	EN	109	
JP 2002543191	W	20021217	(200312)	JA	129	C07D253-06
US 20030036544	A1	20030220	(200316)	EN		
AU 762755	B	20030703	(200354)	EN		
MX 2001011054	A1	20020601	(200365)	ES		A01N043-707
US 6723720	B2	20040420	(200427)	EN		
RU 2252217	C2	20050520	(200535)	RU		
EP 1175410	B1	20051207	(200582)	EN		
DE 60024610	E	20060112	(200613)	DE		
CN 1171880	C	20041020	(200615)	ZH		
MX 229067	B	20050711	(200627)	ES		A01N043-707
ES 2254165	T3	20060616	(200641)	ES		
DE 60024610	T2	20060803	(200651)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000066568	A1	WO 2000-EP3921	20000502
AU 2000042986	A	AU 2000-42986	20000502
AU 762755	B	AU 2000-42986	20000502
BR 2000010294	A	BR 2000-10294	20000502
CN 1349514	A	CN 2000-807104	20000502
CN 1171880	C	CN 2000-807104	20000502
DE 60024610	E	DE 2000-624610	20000502
EP 1175410	A1	EP 2000-922671	20000502
EP 1175410	B1	EP 2000-922671	20000502
DE 60024610	E	EP 2000-922671	20000502

ES 2254165 T3	EP 2000-922671 20000502
JP 2002543191 W	JP 2000-615599 20000502
EP 1175410 A1	WO 2000-EP3921 20000502
BR 2000010294 A	WO 2000-EP3921 20000502
CZ 2001003961 A3	WO 2000-EP3921 20000502
JP 2002543191 W	WO 2000-EP3921 20000502
US 20030036544 A1 Cont of	WO 2000-EP3921 20000502
MX 2001011054 A1	WO 2000-EP3921 20000502
US 6723720 B2 Cont of	WO 2000-EP3921 20000502
RU 2252217 C2	WO 2000-EP3921 20000502
EP 1175410 B1	WO 2000-EP3921 20000502
DE 60024610 E	WO 2000-EP3921 20000502
MX 229067 B	WO 2000-EP3921 20000502
CZ 2001003961 A3	CZ 2001-3961 20000502
RU 2252217 C2	RU 2001-132322 20000502
MX 2001011054 A1	MX 2001-11054 20011030
MX 229067 B	MX 2001-11054 20011030
ZA 2001008943 A	ZA 2001-8943 20011030
KR 2002011406 A	KR 2001-714062 20011103
US 6723720 B2	US 2001-6954 20011105
US 20030036544 A1	US 2001-6954 20011205
DE 60024610 T2	DE 2000-624610 20000502
DE 60024610 T2	EP 2000-922671 20000502
DE 60024610 T2	WO 2000-EP3921 20000502

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
AU 762755	B	Previous Publ	AU 2000042986	A
DE 60024610	E	Based on	EP 1175410	A
ES 2254165	T3	Based on	EP 1175410	A
AU 2000042986	A	Based on	WO 2000066568	A
EP 1175410	A1	Based on	WO 2000066568	A
BR 2000010294	A	Based on	WO 2000066568	A
CZ 2001003961	A3	Based on	WO 2000066568	A
JP 2002543191	W	Based on	WO 2000066568	A
AU 762755	B	Based on	WO 2000066568	A
MX 2001011054	A1	Based on	WO 2000066568	A
RU 2252217	C2	Based on	WO 2000066568	A
EP 1175410	B1	Based on	WO 2000066568	A
DE 60024610	E	Based on	WO 2000066568	A
MX 229067	B	Based on	WO 2000066568	A
DE 60024610	T2	Based on	EP 1175410	A
DE 60024610	T2	Based on	WO 2000066568	A

PRIORITY APPLN. INFO: CH 1999-832 19990504

INT. PATENT CLASSIF.:

MAIN: A01N043-707; C07D253-06
 IPC ORIGINAL: A01N0043-64 [I,C]; A01N0043-64 [I,C]
 IPC RECLASSIF.: A01N0043-64 [I,C]
 ; A01N0043-707 [I,A]; A01N0043-707 [I,A]
 ; A01N0043-707 [I,A]; A01N0057-00 [I,C]; A01N0057-22 [I,A];
 A01N0057-24 [I,A]
 ; C07D0253-00 [I,C]; C07D0253-00 [I,C]
 ; C07D0253-00 [I,C]
 ; C07D0253-06 [I,A]
 ; C07D0253-06 [I,A]
 ; C07D0253-06 [I,A]
 ; C07D0253-06 [I,A]
 ; C07D0253-065 [I,A]; C07D0253-07 [I,A]; C07D0403-00 [I,C];

C07D0403-04 [I,A]; C07D0405-00 [I,C]; C07D0405-04 [I,A]; C07D0409-00 [I,C]; C07D0409-04 [I,A]; C07D0409-06 [I,A]; C07D0417-00 [I,C]; C07D0417-04 [I,A]; C07D0417-06 [I,A]

BASIC ABSTRACT:

WO 2000066568 A1 UPAB: 20060202

NOVELTY - 1,2,4-Triazine derivatives (I) useful as **pesticides** are new.

DETAILED DESCRIPTION - 1,2,4-Triazine derivatives of formula (I) and their E/Z isomers, tautomers or salts are new.

R1 = phenoxy, phenylthio, phenylamino, phenyl-(1-6C alkyl)-amino (all optionally substituted with 1-5 halo, CN, NO₂, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio, 1-6C alkylsulfanyl, 1-6C haloalkylsulfanyl, 1-6C alkylsulfonyl or 1-6C haloalkylsulfonyl), aryl or heteroaryl (both optionally substituted with 1-5 T, -P(=O)(O-1-6C alkyl)₂, phenyl or heteroaryl (both optionally substituted with 1-5 T, -CH(=NOR6), -C(1-6C alkyl)(=NOR6), -CHO, -C(O)-1-6C alkyl))

T = OH, halo, CN, NO₂, 1-6C alkyl, 3-8C cycloalkyl, 3-8C cycloalkenyl (optionally substituted), 1-6C alkyl-3-8C cycloalkyl, 3-8C cycloalkyl-1-6C alkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio, 3-8C halocycloalkylthio, 1-6C alkylsulfanyl, 3-8C cycloalkylsulfanyl, 1-6C haloalkylsulfanyl, 3-8C halocycloalkylsulfanyl, 1-6C alkylsulfonyl, 3-8C cycloalkylsulfonyl, 1-6C haloalkylsulfonyl, 3-8C halocycloalkylsulfonyl, 2-8C alkenyl or 2-8C alkynyl (both optionally substituted), 1-6C alkylcarbonyl, 1-6C alkyl-C(=NOR6) or R7;

R2 = H, OH, halo, CN, NO₂, 1-6C alkyl (optionally substituted), 1-6C alkoxy, 1-6C alkoxy-1-6C alkyl, 1-6C alkylthio, 1-6C alkylthio-1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, -NH-1-6C alkyl, SH or CH₂-NO₂;

A = single bond, 1-12C alkylene, O, O(1-12C alkylene), S(O)_n, S(O)_n(1-12C alkylene), 2-8C alkenylene, 2-8C alkynylene, NR₃ or NR₃(1-12C alkylene);

R3 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 2-8C alkenyl, 2-8C alkynyl, aryl-1-6C alkyl, (CH₂)_pC(O)R₄ or 1-6C alkoxy-2-6C alkyl;

R4 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 1-6C alkoxy, N(R₅)₂ or 1-6C alkoxy-2-6C alkyl;

R5 = H, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl or aryl-1-6C alkyl;

R6 = H, 1-6C alkyl, 3-8C cycloalkyl or -C(O)-R₅;

R7 = a group of formula (i);

R8, R9 = H or 1-6C alkyl;

X1 = R10;

X2, X3 = H or R10;

R10 = halo, CN, NO₂, 1-6C alkyl, 3-8C cycloalkyl, 1-6C haloalkyl, 3-8C halocycloalkyl, 1-6C alkoxy, 3-8C cycloalkoxy, 1-6C haloalkoxy, 3-8C halocycloalkoxy, 1-6C alkylthio, 3-8C cycloalkylthio, 1-6C haloalkylthio or 3-8C halocycloalkylthio;

m = 1-4;

n = 0-2;

W' = O or S; and

provided that:

(1) A-R1 and phenyl substituted with X1-X3 are not in the vicinal position relative to one another on the triazine ring;

(2) X1 is not methyl, Cl or F, when X2, X3 are H, A is single bond, R1 is phenyl, 2-fluorophenyl, 3-fluorophenyl or 4-fluorophenyl and R2 is H, Cl or ethylamino; and

(3) (I) excludes 3,6-di-(2-chlorophenyl)-5-hydroxy-1,2,4-triazine and 3-(2-methylphenyl)-6-(4-methylphenyl)-5-trifluoromethyl-1,2,4-triazine.

An INDEPENDENT CLAIM is also included for a plant propagation material treated with (I) or composition comprising (I).

ACTIVITY - Pesticidal; antiparasitic; insecticidal; ovicidal; acaricidal. Young soybean plants were sprayed with an aqueous emulsion spray mixture comprising 6-(4'-chloro-biphenyl-4-yl)-3-(2,6-difluorophenyl)-(1,2,4)triazine (Ia) (100 ppm) and, after the spray coating had dried, were populated with *Heliothis virescens* (10 caterpillars) and then placed in a plastic container. Six days later, the percentage reduction in population and in feeding damage were determined by comparing the number of dead caterpillars on the treated plants with that on untreated plants. (Ia) gave a reduction in pest population of more than 80 %.

MECHANISM OF ACTION - None given.

USE - (I) are useful for controlling pests, parasites on plants and on warm-blooded animals, and protecting vegetative reproductive material e.g. seeds (all claimed). **MANUAL CODE:** CPI: C07-D13; C14-B02; C14-B04; C14-U02

TECH

ORGANIC CHEMISTRY.- Preparation: (I) may be prepared by e.g.:

(1) reacting a benzoyl compound of formula (II) with 2 equivalents of a carbonyl hydrazine compound of formula (III) to give (I; A = single bond; and phenyl substituted with X1-X3 is in the 6-position on the triazine ring), optionally in the presence of a catalyst (e.g. silver acetate); or

(2) reacting a benzoyl hydrazine compound of formula (IV) with one equivalent of a ketone of formula (V) to give (I; A = single bond; and phenyl substituted with X1-X3 is in the 3-position on the triazine ring), optionally in the presence of a catalyst (e.g. silver acetate).

Q = leaving group.

ABEX DEFINITIONS - Preferred Definition: - A = single bond, 1-12C alkylene, O, methoxy, 2-4C alkenylene, 2-4C alkynylene or NR3; and - X1 = halo, 1-4C alkyl, 3-6C cycloalkyl, 1-4C haloalkyl, 1-4C alkoxy, 1-4C haloalkoxy, 1-4C alkylthio or 1-4C haloalkylthio.

ADMINISTRATION - (I) are applied to the pests or their locus (claimed). Dose may be 1-2000, preferably 20-600, g/ha on plants or their locus, or 0.01-800, preferably 0.5-30, mg/kg body weight based on the host animal.

SPECIFIC COMPOUNDS - 1261 Compounds (I) are disclosed e.g. 6-(4'-chloro-biphenyl-4-yl)-3-(2,6-difluorophenyl)-(1,2,4)triazine (Ia).

EXAMPLE - 2,6-Difluoroacetophenone (40.6 g) was placed in chloroform (120 ml), and aluminum chloride (0.1 g) was added. Bromine (37 g) in chloroform (240 ml) at 0 degree C was added dropwise and the mixture was stirred at 0 degree C for 1 hour. The mixture was then heated to room temperature and concentrated. The residue was distilled over a Vigreux column to obtain 2-bromo-1-(2,6-difluorophenyl)ethanone (A) (m.pt. : 101-110 degrees C at 9 mbar). 4-Bromobenzoic acid hydrazide (24.2 g) and silver acetate (9.17 g) were placed in dimethoxyethane (290 ml). The brown suspension was heated at 60 degrees C. (A) (12.9 g) was added and the mixture was stirred under reflux (85 degrees C) four 48 hours. The suspension was cooled to 40 degrees C and filtered. The filtrate was concentrated and purified using flash column chromatography (silica gel; dichloromethane/n-hexane 1:1) to give 3-(4-bromophenyl)-6-(2,6-difluorophenyl)-(1,2,4)triazine, m.pt. 167-168 degrees C.

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(FILE 'HOME' ENTERED AT 11:11:15 ON 30 JAN 2007)

FILE 'HCAPLUS' ENTERED AT 11:11:25 ON 30 JAN 2007

L1 1 SEA ABB=ON PLU=ON US20060128670/PN

FILE 'REGISTRY' ENTERED AT 11:11:40 ON 30 JAN 2007

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818376-10-2/BI OR 81837

L3 STR

L4 50 SEA SSS SAM L3

L5 7 SEA ABB=ON PLU=ON L2 AND L4

L6 STR

L7 2411 SEA SSS FUL L3

L8 104 SEA ABB=ON PLU=ON L7 AND L2

L9 50 SEA SUB=L7 SSS SAM L6

L10 1244 SEA SUB=L7 SSS FUL L6

SAV L7 KUM292/A

SAV L10 KUM292A/A

L11 0 SEA ABB=ON PLU=ON L10 AND MEDLINE/LC

L12 0 SEA ABB=ON PLU=ON L10 AND BIOSIS/LC

L13 0 SEA ABB=ON PLU=ON L10 AND EMBASE/LC

L14 0 SEA ABB=ON PLU=ON L10 AND DRUGU/LC

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L15 87 SEA ABB=ON PLU=ON L10
 L16 68 SEA ABB=ON PLU=ON L15 AND (1840-2003)/PRY,AY,PY

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L17 1015 SEA ABB=ON PLU=ON L10 AND 2-100/NR

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FILE 'REGISTRY' ENTERED AT 11:54:36 ON 30 JAN 2007

L18 101 SEA ABB=ON PLU=ON L2 AND L17

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L19 2 SEA ABB=ON PLU=ON L18
 L20 60 SEA ABB=ON PLU=ON L17
 L21 43 SEA ABB=ON PLU=ON L20 AND (1840-2003)/PRY,AY,PY
 L22 23 SEA ABB=ON PLU=ON ZAMBACH, W?/AU
 L23 3773 SEA ABB=ON PLU=ON HALL, R?/AU
 L24 27 SEA ABB=ON PLU=ON RENOLD, P?/AU
 L25 56 SEA ABB=ON PLU=ON TRAH, S?/AU
 L26 6 SEA ABB=ON PLU=ON (L22 OR L23 OR L24 OR L25) AND L20
 L27 38 SEA ABB=ON PLU=ON L21 NOT L26
 L28 40 SEA ABB=ON PLU=ON L21 AND (AGR OR BSU OR BIOL OR
 PREP)/RL
 L29 35 SEA ABB=ON PLU=ON L28 NOT L26
 L30 53 SEA ABB=ON PLU=ON L15 AND AGR/RL

FILE 'REGISTRY' ENTERED AT 13:09:22 ON 30 JAN 2007

L31 STR
 L32 48 SEA SUB=L7 SSS SAM L31
 L33 813 SEA SUB=L7 SSS FUL L31
 SAV L33 KUM292B/A

FILE 'HCAPLUS' ENTERED AT 13:14:49 ON 30 JAN 2007

L34 71 SEA ABB=ON PLU=ON L33
 L35 66 SEA ABB=ON PLU=ON L34 AND (AGR OR BSU OR BIOL OR
 PREP)/RL
 L36 54 SEA ABB=ON PLU=ON L35 AND (1840-2003)/PRY,AY,PY
 L37 49 SEA ABB=ON PLU=ON L36 NOT L26

FILE 'EMBASE, BIOSIS, DRUGU, MEDLINE, WPIX, JICST-EPLUS, JAPIO,
 LIFESCI, SCISEARCH' ENTERED AT 13:16:41 ON 30 JAN 2007

L38 26 SEA ABB=ON PLU=ON ZAMBACH, W?/AU
 L39 37 SEA ABB=ON PLU=ON RENOLD, P?/AU
 L40 17 SEA ABB=ON PLU=ON TRAH, STEPHAN?/AU
 L41 107 SEA ABB=ON PLU=ON HALL, ROGER?/AU
 L42 36 SEA ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41) AND
 PESTICID?
 L43 4 SEA ABB=ON PLU=ON L42 AND KETO?

FILE 'HCAPLUS, BIOSIS, WPIX' ENTERED AT 13:24:54 ON 30 JAN 2007

L44 9 DUP REM L26 L43 (1 DUPLICATE REMOVED)
 ANSWERS '1-6' FROM FILE HCAPLUS
 ANSWER '7' FROM FILE BIOSIS
 ANSWERS '8-9' FROM FILE WPIX